TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: Restore the Grasslands, LLC and Harrington/Turner Enterprises, LP

PERMIT NUMBER: TBD

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: Click here to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

☒ New TPDES

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: N/A

For existing permits:

Permit Number: WQ00N/A

EPA I.D. (TPDES only): TXN/A

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?

Restore the Grasslands, LLC

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

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

CN: N/A

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

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

First and Last Name: John Cox

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

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?

Harrington/Turner Enterprises, LP

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

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

CN: N/A

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

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

First and Last Name: Margaret Turner

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

Title: N/A

Provide a brief description of the need for a co-permittee: Intended owner of the facility is not the landowner

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: 1.1 and 1.2

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): Ms.

First and Last Name: Ashley Broughton

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

Title: Project Manager

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W Sam Houston Pkwy S, Suite 600

City, State, Zip Code: Houston, Texas 77042

Phone No.: 713-380-4431 Ext.: N/A Fax No.: N/A

E-mail Address: abroughton@lja.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: Laura Preston

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

Title: Graduate Engineer

Organization Name: LJA Engineering, Inc.

Mailing Address: 6060 N Central Expy Suite 400

City, State, Zip Code: Dallas, TX, 75206

Phone No.: 325-668-2952 Ext.: N/A Fax No.: N/A

E-mail Address: lpreston@lja.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): Ms.

First and Last Name: Ashley Broughton

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

Title: Project Manager

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W Sam Houston Parkway S, STE 600

City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 Ext.: N/A Fax No.: N/A

E-mail Address: abroughton@lja.com

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

First and Last Name: Jaison Stephen

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

Title: Vice President

Organization Name: LJA Engineering, Inc.

Mailing Address: 6060 N Central Expy Suite 400

City, State, Zip Code: Dallas, Texas 75206

Phone No.: 469-484-0776 Ext.: N/A Fax No.: N/A

E-mail Address: jstephen@lja.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: John Cox

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

Title: Manager

Organization Name: Restore the Grasslands, LLC

Mailing Address: 4801 West Lovers Lane

City, State, Zip Code: Dallas, TX 75209

Phone No.: (214) 415-6047 Ext.: N/A Fax No.: N/A

E-mail Address: john.cox@coxsarbentlaw.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: John Cox

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

Title: Manager

Organization Name: Restore the Grasslands, LLC

Mailing Address: 4801 West Lovers Lane

City, State, Zip Code: Dallas, TX 75209

Phone No.: (214) 415-6047 Ext.: N/A Fax No.: N/A

E-mail Address: john.cox@coxsarbentelaw.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): Ms.

First and Last Name: Laura Preston

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

Title: Graduate Engineer

Organization Name: LJA Engineering, Inc.

Mailing Address: 6060 N Central Expy Suite 400

City, State, Zip Code: Dallas, Texas 75206

Phone No.: 325-668-2952 Ext.: N/A Fax No.: N/A

E-mail Address: lpreston@lja.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: lpreston@lja.com and abroughton@lja.com;

☐ Fax

☒ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Ashley Broughton

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

Title: Project Manager

Organization Name: LJA Engineering, Inc

Phone No.: 713-380-4431 Ext.: Click here to enter text.

E-mail: abroughton@lja.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: Smith Public Library

Location within the building: Reference Desk

Physical Address of Building: 300 Country Club Rd

City: Wylie County: Collin

Contact Name: Library Staff

Phone No.: (972)-516-6250 Ext.: N/A

E. Bilingual Notice Requirements:

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☒ No

5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**N/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):

Collin County MUD No. 7 WWTP

C. Owner of treatment facility: Restore the Grasslands, LLC

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: Harrington/Turner Enterprises, LP

Mailing Address: 3510 Dublin Road

City, State, Zip Code: Parker, TX 75002

Phone No.: (214) 802-0011 E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

E. Owner of effluent disposal site:

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

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

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☐ No

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

Approximately 0.4 miles northwest from the intersection of N. Murphy Road and Rolling Ridge Dr. in Collin County, Texas

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

☐ Yes ☐ No

If **no**, **or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

To Maxwell Creek; thence to Muddy Creek; thence to Lake Ray Hubbard in Segment 0820 of the Trinity River Basin

City nearest the outfall(s): Parker

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

Outfall Latitude: N 30° 2' 30" Longitude: W 96° 36' 59"

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

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

N/A

B. City nearest the disposal site: N/A

C. County in which the disposal site is located: N/A

D. Disposal Site Latitude: N/A Longitude: N/A

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

N/A

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

N/A

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.

N/A

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: N/A Amount past due: N/A

Section 13. Attachments (Instructions Page 38)

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

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Core Data Forms: Attachments 1.1 and 1.2

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: TBD

Applicant: Restore the Grasslands, LLC

Certification:

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

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

Signatory name (typed or printed): John Cox

Signatory title: MANAGER

Signature: _____ Date: 4/20/2021

(Use blue ink)

Subscribed and Sworn to before me by the said JOHN COX

on this 20 day of April, 20 21.

My commission expires on the 20 day of March, 20 25.

Roxanne Cabrera

Notary Public

ROXANNE CABRERA
Notary ID #12217308
My Commission Expires
March 20, 2025

NOTARY PUBLIC STATE OF TEXAS

[SEAL]

Dallas

County, Texas

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: TBD

Applicant: Harrington / Turner Enterprises, 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): Margaret Turner

Signatory title: [redacted]

Signature: Margaret E. Turner Date: 4-28-21

(Use blue ink)

Subscribed and Sworn to before me by the said Margaret Turner

on this 28th day of April, 20 21.

My commission expires on the 14th day of August, 20 22.

Devin Huffines

Notary Public

[SEAL]

Dallas

County, Texas

DEVIN HUFFINES
Notary Public, State of Texas
Comm. Expires 08-14-2022
Notary ID 131682366

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☒ Readable/Writeable CD ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Collin County CAD

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

☐ Yes ☒ No

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

land(s):

N/A

Section 2. Original Photographs (Instructions Page 44)

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

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

Section 3. Buffer Zone Map (Instructions Page 44)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☒ Ownership
- ☒ Restrictive easement
- ☐ Nuisance odor control
- ☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

☒ Yes ☐ No

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

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

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: Restore the Grasslands, LLC and Harrington/Turner Enterprises, 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):

   Approximately 0.4 miles northwest from the intersection of N. Murphy Road and Rolling Ridge Dr. in Collin County, Texas

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: Jaison Stephen

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

Title: Vice President

Mailing Address: 6060 N Central Expy Suite 400

City, State, Zip Code: Dallas, Texas 75206

Phone No.: (469)-484-0779 Ext.: N/A Fax No.: N/A

E-mail Address: jstephen@lja.com

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

N/A

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

To Maxwell Creek; thence to Muddy Creek; thence to Lake Ray Hubbard in Segment 0820 of the Trinity River Basin

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

The property is currently being used for agriculture, and the existing vegetation consists of grasses, shrubs, and trees.

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

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

No existing buildings or structures are located on the property.

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

The property has never been developed previously and has generally been used for agricultural purposes or vacant.

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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): 0.1 MGD

2-Hr Peak Flow (MGD): 0.40 MGD

Estimated construction start date: 05/2022

Estimated waste disposal start date: 12/2022

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 0.2 MGD

2-Hr Peak Flow (MGD): 0.80 MGD

Estimated construction start date: 01/2024

Estimated waste disposal start date: 06/2024

D. Current operating phase: N/A – The facility has not yet been constructed

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:

See attachment 7

Port or pipe diameter at the discharge point, in inches: 24

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 8		

C. Process flow diagrams

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

Attachment: 9.1 & 9.2

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: 10

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

Turner Tract – a 101-acre tract that will be developed as single-family residential lots and townhomes.

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.

N/A

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.

N/A

Section 6. Permit Specific Requirements (Instructions Page 53)

For applicants with an existing permit, check the *Other Requirements* or *Special Provisions* of the permit.

A. Summary transmittal

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

Yes ☐ No ☐

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

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.

Buffer zone requirements will be met by ownership and restrictive easement.

C. Other actions required by the current permit

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

Yes ☐ No ☐

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

N/A

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 N/A or TXRNE N/A

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:

N/A

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.

N/A

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.

N/A

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.

N/A

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	N/A				
Total Suspended Solids, mg/l	N/A				
Ammonia Nitrogen, mg/l	N/A				
Nitrate Nitrogen, mg/l	N/A				
Total Kjeldahl Nitrogen, mg/l	N/A				
Sulfate, mg/l	N/A				
Chloride, mg/l	N/A				
Total Phosphorus, mg/l	N/A				
pH, standard units	N/A				
Dissolved Oxygen*, mg/l	N/A				
Chlorine Residual, mg/l	N/A				
E.coli (CFU/100ml) freshwater	N/A				

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Entercocci (CFU/100ml) saltwater	N/A				
Total Dissolved Solids, mg/l	N/A				
Electrical Conductivity, µmohs/cm, †	N/A				
Oil & Grease, mg/l	N/A				
Alkalinity ($CaCO_3$)*, mg/l	N/A				

*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	N/A				
Total Dissolved Solids, mg/l	N/A				
pH, standard units	N/A				
Fluoride, mg/l	N/A				
Aluminum, mg/l	N/A				
Alkalinity ($CaCO_3$), mg/l	N/A				

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: TBD

Facility Operator's License Classification and Level: TBD

Facility Operator's License Number: TBD

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

A. Sludge disposal method

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

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

B. Sludge disposal site

Disposal site name: TBD

TCEQ permit or registration number: Click here to enter text.

County where disposal site is located: Click here to enter text.

C. Sludge transportation method

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

Name of the hauler: Click here to enter text.

Hauler registration number: Click here to enter text.

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: N/A

- USDA Natural Resources Conservation Service Soil Map:

  Attachment: N/A

- Federal Emergency Management Map:

  Attachment: N/A

- Site map:

  Attachment: N/A

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: N/A

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:

N/A

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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

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

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

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

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.

N/A

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

N/A

Attach the following documents to the application.

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

  Attachment: N/A

- Copy of the closure plan

  Attachment: N/A

- Copy of deed recordation for the site

  Attachment: N/A

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

  Attachment: N/A

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

  Attachment: N/A

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: N/A

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: N/A

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

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

A. Justification of permit need

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

The permit is needed for the proposed new Wastewater Treatment Facility which will provide service to the planned single-family residential and townhome development.

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: 11

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

Attachment: 12

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: N/A

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)	Influent BOD_5 Concentration (mg/l)
Municipality		
Subdivision	0.20 MGD	300 mg/L
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	0.20 MGD	
AVERAGE BOD_5 from all sources		300 mg/L

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: N/A

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: Click here to enter text.

Total Suspended Solids, mg/l: Click here to enter text.

Ammonia Nitrogen, mg/l: Click here to enter text.

Total Phosphorus, mg/l: Click here to enter text.

Dissolved Oxygen, mg/l: Click here to enter text.

Other: Click here to enter text.

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: N/A

Dissolved Oxygen, mg/l: 4

Other: Click here to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 4 mg/l after 20 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: 13

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.

N/A

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

FEMA FIRM 48085C0415J

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: N/A

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

B. Wind rose

Attach a wind rose. **Attachment**: 14

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: 15

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: Maxwell Creek

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: Click here to enter text.

C. Downstream perennial confluences

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

No perennial streams join Maxwell Creek within three miles downstream of the discharge point.

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 water body is generally a shallow, slow-flowing stream during normal dry weather conditions. The stream banks are heavily vegetated.

Date and time of observation: April 7, 2021 3:00 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
- ☐ Upstream discharges
- ☐ Septic tanks
- ☒ Urban runoff
- ☒ Agricultural runoff
- ☐ Other(s), specify Click here to enter text

B. Waterbody uses

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

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

DOMESTIC WORKSHEET 2.1

STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 75)

Date of study: February 1, 2022 Time of study: 10:00 am

Stream name: Maxwell Creek

Location: Murphy, TX

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☒ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 75)

Number of stream bends that are well defined: 1

Number of stream bends that are moderately defined: 16

Number of stream bends that are poorly defined: 7

Number of riffles: 23

Evidence of flow fluctuations (check one):

☐ Minor ☒ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

This stream is used for subdivision and roadway drainage.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
pool	(-96.615708, 33.041619)	7	0.70, 0.88, 1, 1.08, 1.04
riffle	(-96.614994, 33.040858)	5	0.04, 0.17, 0.06, 0.10
run	(-96.613348, 33.040048)	17	0.29, 0.33, 0.58, 0.38, 0.5
run	(-96.611755, 33.039412)	14	0.10, 0.25, 0.29, 0.46, 0.42, 0.25
glide	(-96.610663, 33.038262)	10.5	0.83, 0.92, 1.08, 0.96, 1.08
pool	(-96.610767, 33.036906)	11	0.58, 0.96, 1.71, 1.25
pool	(-96.609778, 33.035932)	15	1.13, 1.15, 1.33, 0.92, 0.21
riffle	(-96.609243, 33.034623)	15	0.25, 0.29, 0.19, 0.13, 0.08
run	(-96.608696, 33.033888)	20	0.54, 0.66, 0.92, 0.79, 0.88, 1.08, 1.15, 1.02, 0.41, 0.25
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet: 0.006 ft/ft

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 1.073 square miles

Length of stream evaluated, in feet: 4,051 feet

Number of lateral transects made: Nine

Average stream width, in feet: 10.6 feet

Average stream depth, in feet: 0.64 feet

Average stream velocity, in feet/second: 0.637 feet/second

Instantaneous stream flow, in cubic feet/second: 2.29 cubic feet/second

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): floating chip timed over a fixed distance

Size of pools (large, small, moderate, none): Small

Maximum pool depth, in feet: 2.58 feet

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works (POTWs)

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

Yes ☐ No ☒

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

N/A – Facility has not yet been constructed

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

Yes ☐ No ☒

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

N/A – Facility has not yet been constructed

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

Yes ☐ No ☐

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click here to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

Yes ☐ No ☐

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click here to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

Yes ☐ No ☐

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click here to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: N/A

SIC Code: N/A

Telephone number: N/A Fax number: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

N/A

C. Product and service information

Provide a description of the principal product(s) or services performed.

N/A

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

Yes ☐ No ☐

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

Yes ☐ No ☐

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

Yes ☐ No ☐

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

N/A

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)	5/1/2021

☒ 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:*
Restore the Grasslands LLC	N/A

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
803409146	32071830353	N/A	N/A

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

12. Number of Employees	13. Independently Owned and Operated?
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher	☒ 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:							
Restore the Grasslands LLC							
4801 West Lovers Lane							
City	Dallas	State	TX	ZIP	75209	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	N/A

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(214) 415-6047		( ) -

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.)*

Collin County MUD No. 7 WWTP

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Approximately 0.4 miles northwest from the intersection of N. Murphy Road and Rolling Ridge Dr. in Collin County, Texas

26. Nearest City	**State**	**Nearest ZIP Code**
Parker	TX	75002

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
33	2	30	96	36	59

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		22132	

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

Domestic Wastewater Treatment

34. Mailing Address:	**Collin County MUD No. 7 WWTP**							
	4810 West Lovers Lane							
	City	**Dallas**	**State**	**TX**	**ZIP**	**75209**	**ZIP + 4**	

35. E-Mail Address:	

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(214) 415-6047		( ) -

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:

SECTION IV: Preparer Information

40. Name:	Ashley Broughton, P.E., LJA Engineering	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(713) 380-4431		( ) -	abroughton@lja.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:	LJA Engineering	**Job Title:**	Project Manager
Name *(In Print):*	Ashley Broughton, P.E.	**Phone:**	(713) 380- 4431
Signature:		**Date:**	7/19/21

TCEQ Core Data Form

TCEQ Use Only

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

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Harrington/Turner Enterprises, LP	N/A

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0801038766	32038116466	N/A	N/A

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:							
Harrington/Turner Enterprises, LP							
3510 Dublin Road							
City	Parker	State	TX	ZIP	75002	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	N/A

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(214) 802-0011		( ) -

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	City	Dallas	State	TX	ZIP	75002	ZIP + 4	

35. E-Mail Address:	

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(214) 415-6047		( ) -0

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:

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40. Name:	Ashley Broughton, P.E., LJA Engineering	41. Title:	Project Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(713) 380-4431		( ) -	abroughton@lja.com

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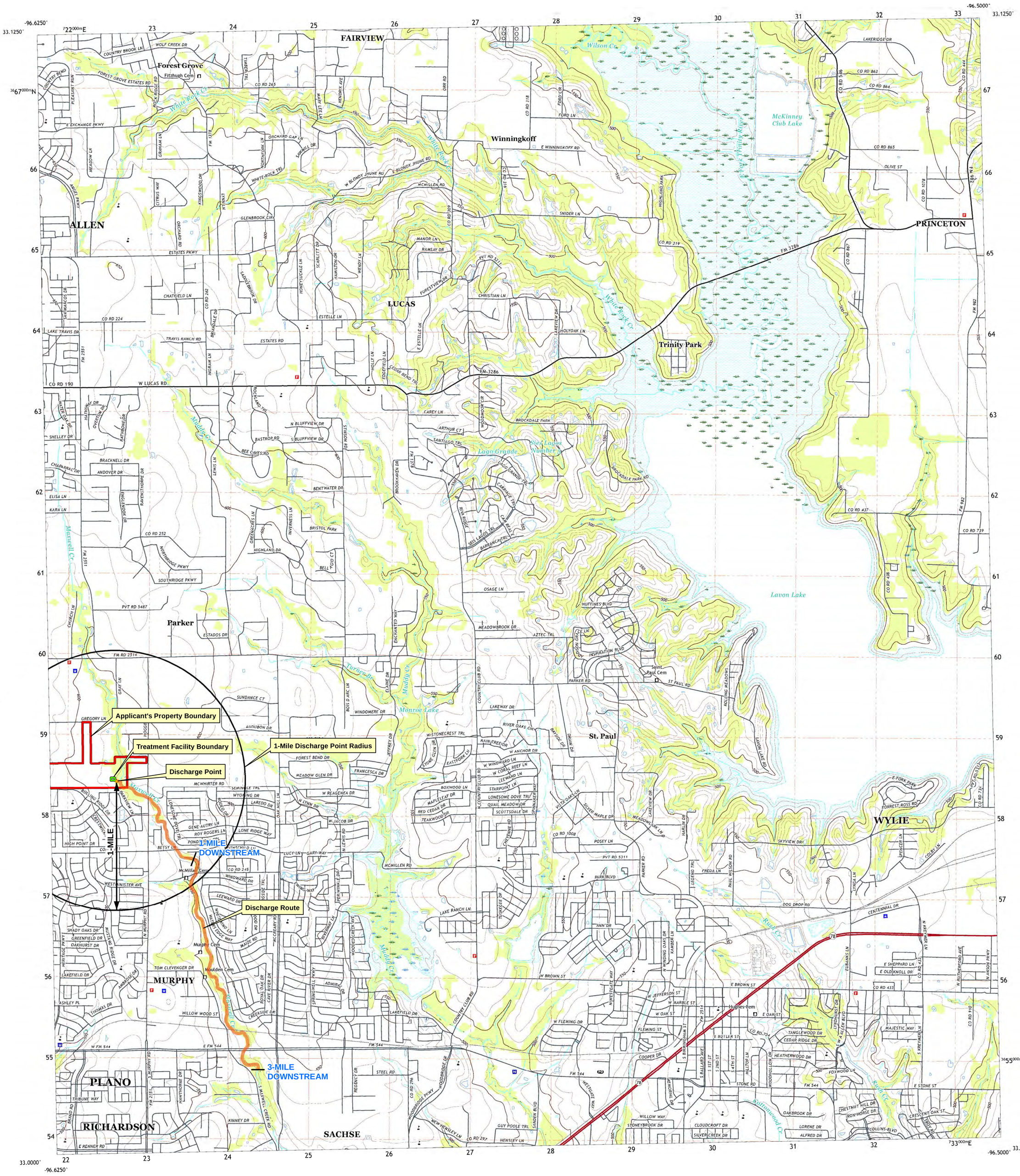
Company:	LJA Engineering	Job Title:	Project Manager
Name *(In Print)*:	Ashley Broughton, P.E.	Phone:	(713) 380- 4431
Signature:		Date:	

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

WYLIE QUADRANGLE
TEXAS - COLLIN COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, September 2016 - November 2016	
Roads	U.S. Census Bureau, 2015 -	2018
Names	GNIS, 1979 -	2018
Hydrography	National Hydrography Dataset, 2002 -	2018
Contours	National Elevation Dataset, 2003 -	2005
Boundaries	Multiple sources; see metadata file 2016 -	2017
Wetlands	FWS National Wetlands Inventory	1982

MN
GN
2°89
53 MILS
1°20
24 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
QB
Grid Zone Designation
14S

SCALE 1:24 000

KILOMETERS 0 0.5 1 2
METERS 1000 500 0 1000 2000
MILES 0 0.5 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 McKinney West
2 McKinney East
3 Culleoka
4 Plano
5 Lavon
6 Garland
7 Rowlett
8 Rockwall

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

WYLIE, TX
2019

NSN 7643016398971
NGA REF NO. USGSX24K49956

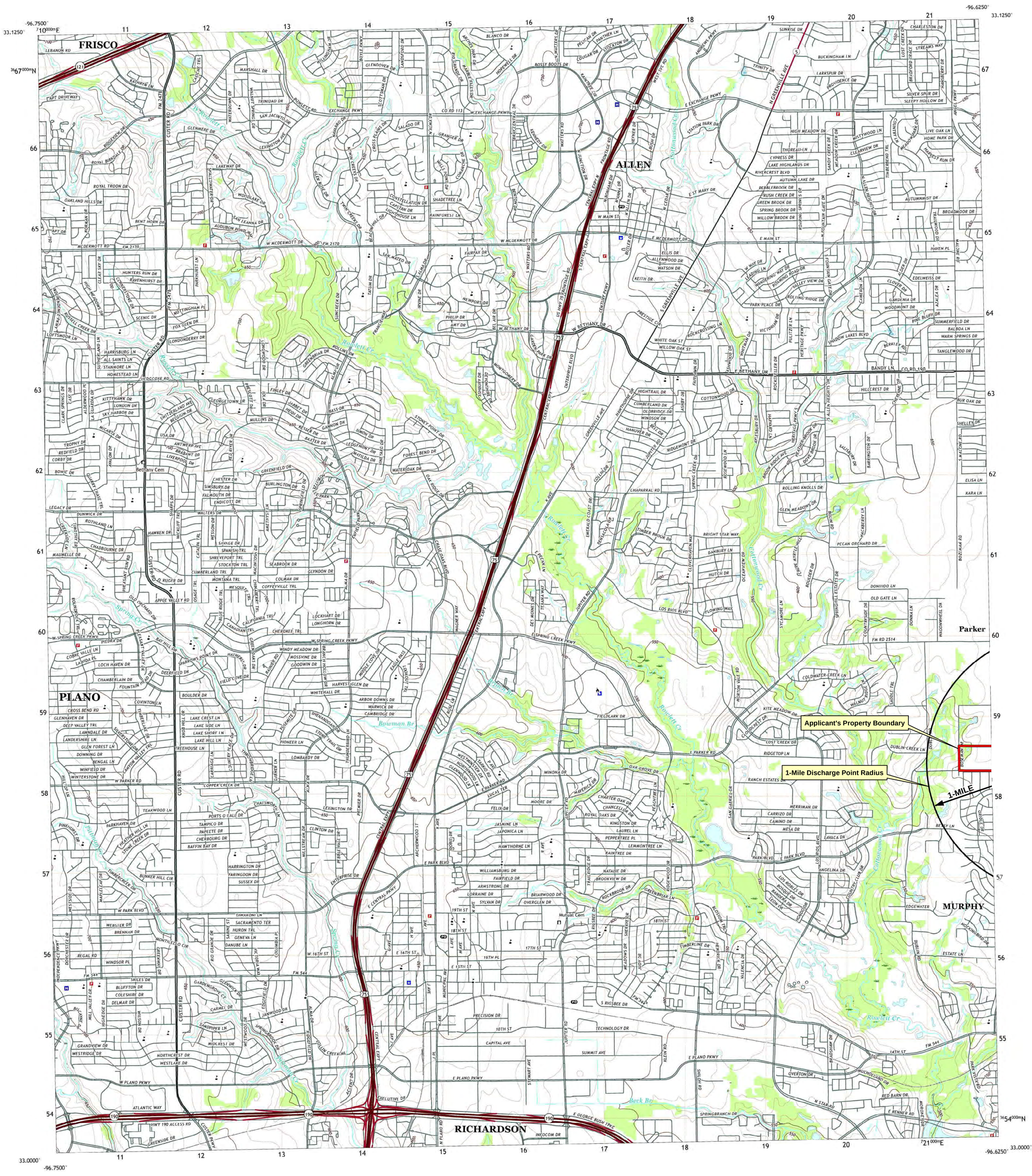
ATTACHMENT 2.1	
HARRINGTON / TURNER ENTERPRISES, LP RESTORE THE GRASSLANDS, LLC WWTP DISCHARGE PERMIT (3-MILE) USGS TOPOGRAPHIC MAP	
LJA ENGINEERING **6060 North Central Expressway, Suite 400 Dallas, Texas 75206** Phone 469.621.0710 TBPE F-1386 LJA.com	
APRIL 2021	LJA JOB NO: NT561-0133

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

PLANO QUADRANGLE
TEXAS - COLLIN COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14S

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Imagery	NAIP, September 2016 - November 2016	
Roads	U.S. Census Bureau, 2015 -	2018
Names	GNIS, 1979 -	2018
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Contours	National Elevation Dataset,	2003
Boundaries	Multiple sources; see metadata file 2016 -	2017
Wetlands	FWS National Wetlands Inventory	1982

MN
GN
3°3
54 MILS
1°16
23 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100 000-m Square ID
QB
Grid Zone Designation
14S

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 2 3
4 5
6 7 8
1 Frisco
2 McKinney West
3 McKinney East
4 Hebron
5 Wylie
6 Addison
7 Garland
8 Rowlett

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

PLANO, TX
2019

NSN 7643016397747
NGA REF NO. USGSX24K3556

ATTACHMENT 2.2	
HARRINGTON / TURNER ENTERPRISES, LP RESTORE THE GRASSLANDS, LLC WWTP DISCHARGE PERMIT (3-MILE) USGS TOPOGRAPHIC MAP	
LJA ENGINEERING **6060 North Central Expressway, Suite 400 Dallas, Texas 75206** Phone 469.621.0710 TBPE F-1386 LJA.com	
APRIL 2021	LJA JOB NO: NT561-0133

HARRINGTON / TURNER ENTERPRISES, LP
RESTORE THE GRASSLANDS, LLC
WWTP DISCHARGE PERMIT

ATTACHMENT 3
AFFECTED LANDOWNER EXHIBIT FOR APPLICANT BOUNDARY

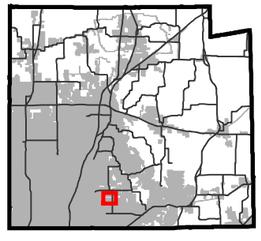
JULY 2021

LEGEND

- SERVICE AREA
- WWTP SITE BOUNDARY
- APPLICANT'S PROPERTY BOUNDARY
- 150' BUFFER ZONE
- DISCHARGE ROUTE
- PARCELS
- AFFECTED LANDOWNERS
- POINT OF DISCHARGE

N
W E
S

700 350 0 700
FEET



COLLIN COUNTY

AERIAL PHOTOGRAPH DATE: NEARMAP 2021

THIS PRODUCT IS FOR INFORMATIONAL PURPOSES AND MAY NOT HAVE BEEN PREPARED FOR OR BE SUITABLE FOR LEGAL, ENGINEERING, OR SURVEYING PURPOSES. IT DOES NOT REPRESENT AN ON-THE-GROUND SURVEY AND REPRESENTS ONLY THE APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES.

LJA ENGINEERING
6060 North Central Expressway, Suite 440
Dallas, Texas 75206
Phone 469.621.0710 TBPE F-1386
LJA.com

Path: S:\NTX-LAND\0133\300 SUPPORT\370 Wastewater\Discharge Permit\Support\GIS Coordination\MXD\Discharge Permit_Attachment 3_20210713.mxd

KEY	PROPERTY ID	OWNER NAME
1A	2663984 / 353236	HARRINGTON/TURNER ENTERPRISES LP
1B	2117133	GREGORY LANE LLC
2	2663985	CARPENTER FARMS LTD
3	2106038	CAUGHFIELD LANCE ERIC
4	359542	CARPENTER FARMS LTD
5	427309	CARPENTER FARMS LTD
6	364858	CARPENTER FARMS LTD
7	2119510	SOUTHFORK PROPERTIES LP
8	364867	ROLLER RANDY JAY ETAL
9	2589137	MURPHY CITY OF
10	364876	LEWIS FAMILY TRUST
11	2500741	MURPHY CITY OF
12	2586598	MURPHY CITY OF
13	2718388	MURPHY CITY OF
14	2527842	BAILEY CATHERINE M
15	2565102	ELLIS FAMILY LIVING TRUST

KEY	PROPERTY ID	OWNER NAME
16	2571293	EVANS ELEANOR NOREEN &
17	214262	TATSCH KENNETH ALAN
18	2120245	MENCONI JULIE C
19	1607434 / 353325	HERNANDEZ FAMILY LIVING TRUST
20	353192	VIERE GORDON A & DIANE L
21	1071690 / 2559563	JACKSON RANCH INC
22	2120243	HARVEY WILLIAM C & KATHERINE CALABRIA JOINT GRANTORS TRUST
23	2120469	38 CHAMPS LLC
24	2775859 / 2775860	OROZCO FAMILY LIVING TRUST
25	2064856	HO CHARLES
26	2124355	SPIVEY JAMES W
27	2120244	TREJO VALENTIN T & MARIA G &
28	2648688	LOOP STEVEN G &
29	2029268 / 2563581	VIELOCK JOE R & JEANNE PHIPPS
30	365839	SWINGIN D RANCH LTD ET AL
31	365900 / 1608745	SHARPE DILLARD A ETAL
32	2006812	BLACK GOLD STABLES LLC
33	2588709	BECKER ERIC & JENNIFER L
34	2554790 / 2588712	ROLLING RIDGE ESTATES HOMEOWNERS ASSOC INC
35	2588413	HAILU FAMILY TRUST THE
36	2588412	DWIGHT JEFFRY - LE
37	2512604	KELLEY JANELLE L & CHRISTOPHER L
38	2512603	RODRIGUEZ RODRIGO & LORINA
39	2512602	SOPOCY JOHN & LORI
40	2512601	HAYNES MICHAEL &
41	2512600	NANGIA AMIT &
42	2512493	MOEBIUS JAMES R & CARROLYN JEAN
43	2106039	MCGREGOR PHILLIP &

1A. HARRINGTON/TURNER ENTERPRISES LP
3510 DUBLIN ROAD
PARKER TX 75002

1B. GREGORY LANE LLC
3510 DUBLIN ROAD
PARKER TX 75002

2. CARPENTER FARMS LTD
3337 OVERLAND DR
PLANO TX 75023

3. CAUGHFIELD LANCE ERIC
1404 KEATHLY CIR
MURPHY TX 75094

4. CARPENTER FARMS LTD
3337 OVERLAND DR
PLANO TX 75023

5. CARPENTER FARMS LTD
3337 OVERLAND DR
PLANO TX 75023

6. CARPENTER FARMS LTD
3337 OVERLAND DR
PLANO TX 75023

7. SOUTHFORK PROPERTIES LP
C/O MIKE A THOMAS
PO BOX 941428
PLANO TX 75094

8. ROLLER RANDY JAY ETAL
120 E FM 544 STE 72 #140
MURPHY TX 75094

9. MURPHY CITY OF
206 N MURPHY RD
MURPHY TX 75094

10. LEWIS FAMILY TRUST
5880 FM 546
PRINCETON TX 75407

11. MURPHY CITY OF
206 N MURPHY RD
MURPHY TX 75094

12. MURPHY CITY OF
206 N MURPHY RD
MURPHY TX 75094

13. MURPHY CITY OF
206 N MURPHY RD
MURPHY TX 75094

14. BAILEY CATHERINE M
309 MCMILLEN DR
MURPHY TX 75094

15. ELLIS FAIMLY LIVING TRUST
C/O GENE C ELLIS & SHARON KAY ELLIS
305 MCMILLEN DR
MURPHY TX 75094

16. EVANS ELEANOR NOREEN & ALICIA S
3507 HOGGE DR
PARKER TX 75002

17. TATSCH KENNETH ALAN
PO BOX 850955
RICHARDSON TX 75085

18. MENCONI JULIE C
2080 KENDALL ST
EDGEWATER CO 80214

19. HERNANDEZ FAMILY LIVING TRUST
5906 GREGORY LN
PARKER TX 75002

20. VIERE CORDON A & DIANE L
5902 GREGORY LN
ALLEN TX 75002

21. JACKSON RANCH INC
6670 HILLBRIAR DR
DALLAS TX 75248

22. HARVEY WILLIAM C & KATHERINE
CALABRIA JOINT GRANTORS TRUST
5804 GREGORY LN
PARKER TX 75002

23. 38 CHAMPS LLC
1412 SUSSEX DR
PLANO TX 75075

24. OROZCO FAMILY LIVING TRUST
5704 GREGORY LN
ALLEN TX 75002

25. HO CHARLES
2800 W PARKER RD STE 110
PLANO TX 75075

26. SPIVEY JAMES W
5604 GREGORY LN
ALLEN TX 75002

27. TREJO VALENTIN T & MARIA G &
MAYRA & VALENTIN TREJO JR
5600 GREGORY LN
ALLEN TX 75002

28. LOOP STEVEN G & LINDA C LOOP
5580 GREGORY LN
PARKER TX 75002

29. VIELOCK JOE R & JEANNE F
5504 GREGORY LN
ALLEN TX 75002

30. SWINGIN D RANCH LTD ET AL
3510 DUBLIN RD
ALLEN TX 75002

31. SHARPE DILLARD A ETAL
3300 DUBLIN RD
ALLEN TX 75002

32. BLACK GOLD STABLES LLC
3106 DUBLIN ROAD
ALLEN TX 75002

33. BECKER ERIC & JENNIFER L
1335 TWIN KNOLL DR
MURPHY TX 75094

34. ROLLING RIDGE ESTATES HOA INC
C/O REAL MANAGE
PO BOX 803555
DALLAS TX 75380

35. HAILU FAMILY TRUST THE
PO BOX 550386
DALLAD TX 75355

36. DWIGHT JEFFRY – LE (DWIGHT FAMILY
TRUST)
308 ORIOLE DR
MURPHY TX 75094

37. KELLEY JANELLE L & CHRISTOPHER L
1432 PARKVIEW LN
MURPHY TX 75094

38. RODRIGUEZ RODRIGO & LORINA
1428 PARKVIEW LN
MURPHY TX 75094

39. SOPOCY JOHN & LORI
1424 PARKVIEW LN
MURPHY TX 75094

40. HAYNES MICHAEL & ALESHA R HAYNES
1420 PARKVIEW LN
MURPHY TX 75094

41. NANGIA AMIT & RANJANI
VAKATARAMAN
1416 PARKVIEW LN
MURPHY TX 75094

42. MOEBIUS JAMES R & CARROLYN JEAN
1412 PARKVIEW LN
MURPHY TX 75094

43. MCGREGOR PHILLIP & SHARON LYNN
MCGREGOR
1408 KEATHLY CIR
MURPHY TX 75094

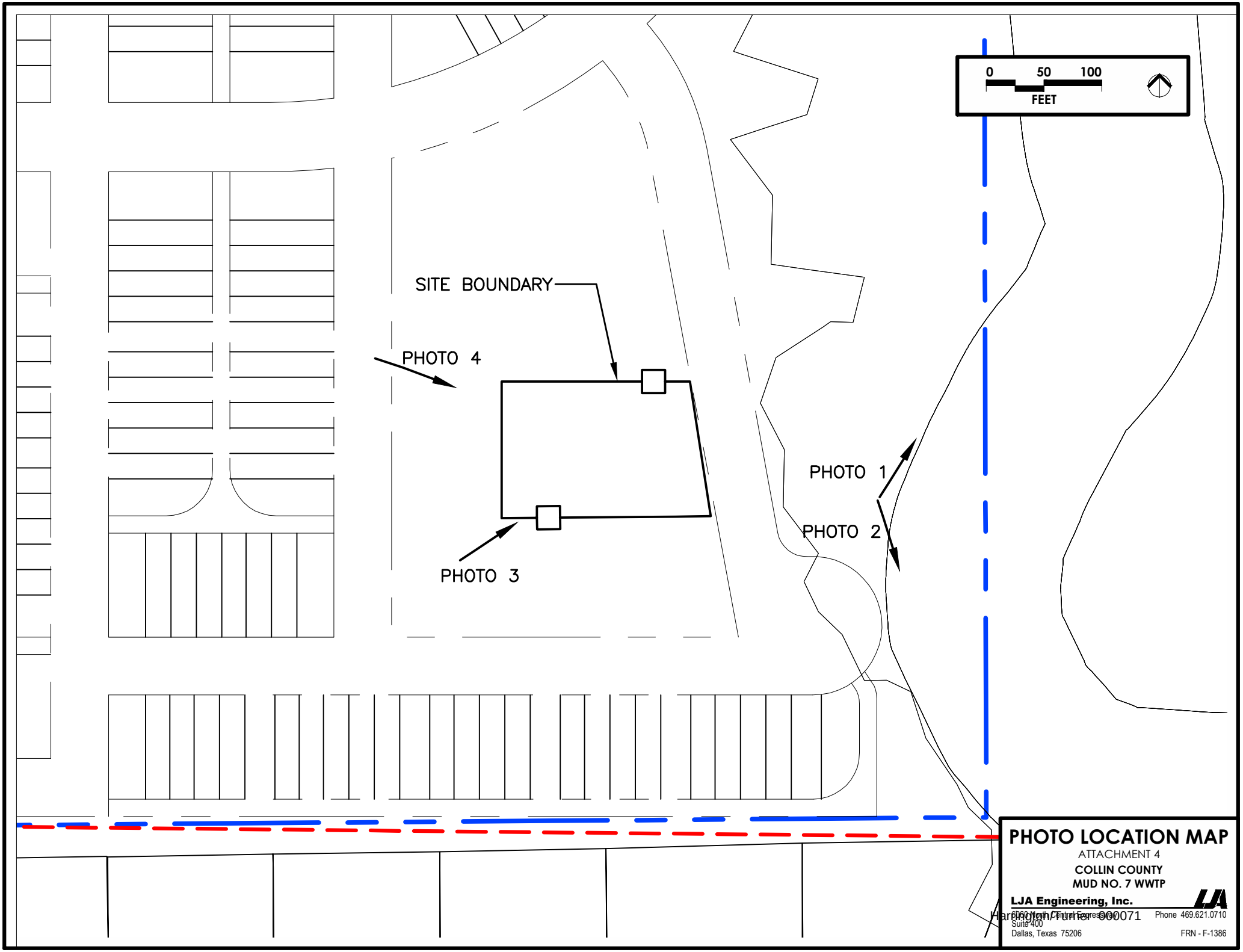


PHOTO LOCATION MAP

ATTACHMENT 4

COLLIN COUNTY
MUD NO. 7 WWTP

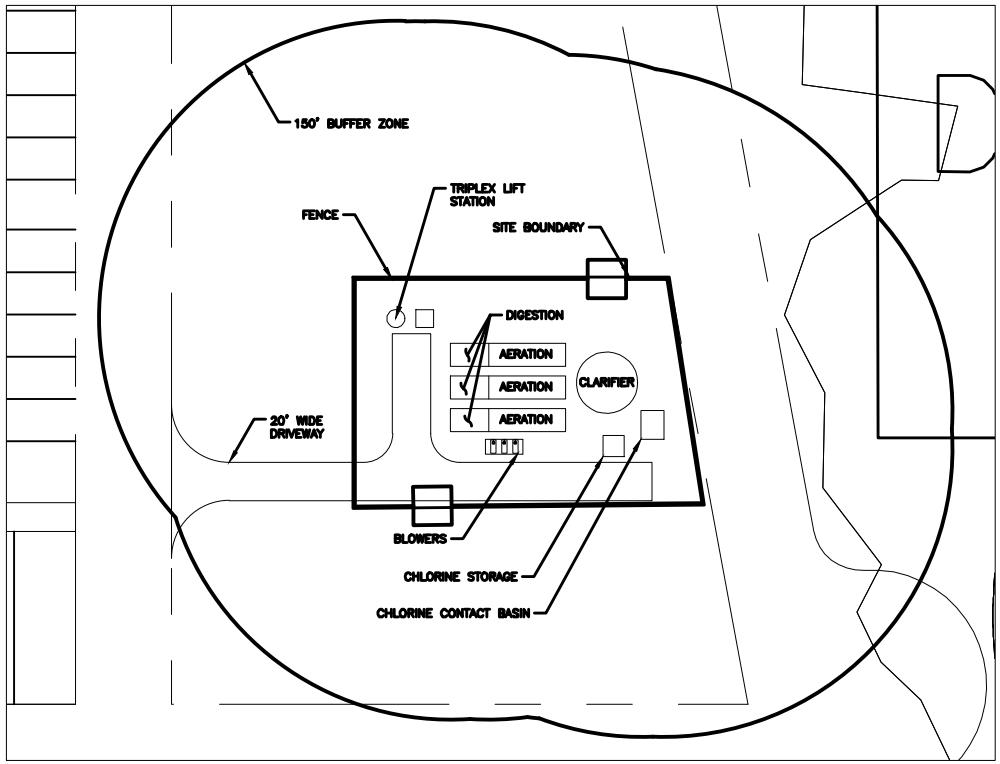
LJA Engineering, Inc.
Harrington/Turner 000071
2000 North Central Expressway
Suite 400
Dallas, Texas 75206
Phone 469.621.0710
FRN - F-1386

Photo 1: Upstream of the discharge point

Photo 2: Downstream of the discharge point

Photo 3 WWTP Site

Photo 4 WWTP Site



DETAIL A
SCALE: 1"=100'

0 250 500
FEET

APPLICANT'S PROPERTY BOUNDARY

TREATMENT FACILITY BOUNDARY

SEE DETAIL A

150' BUFFER ZONE

SERVICE AREA BOUNDARY

BUFFER ZONE MAP

ATTACHMENT 5

COLLIN COUNTY MUD NO. 7 WWTP

LJA Engineering, Inc.
2000 North Central Expressway
Suite 400
Dallas, Texas 75206
Phone 469.621.0710
FRN - F-1386

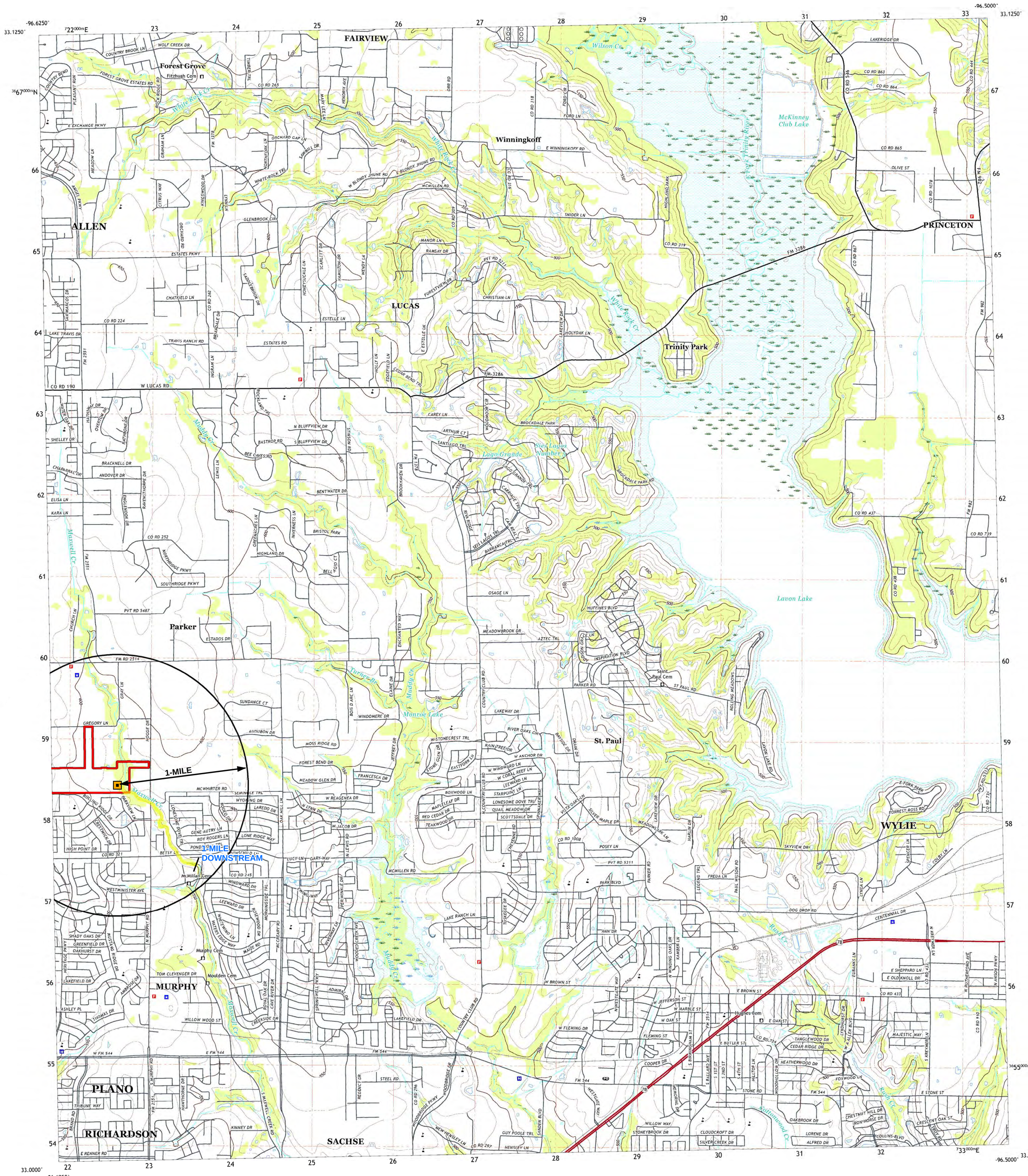
Harrington/Turner 080073

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

WYLIE QUADRANGLE
TEXAS - COLLIN COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, September 2016 - November 2016	
Roads	U.S. Census Bureau, 2015 -	2018
Names	GNIS, 1979 -	2018
Hydrography	National Hydrography Dataset, 2002 -	2018
Contours	National Elevation Dataset, 2003 -	2005
Boundaries	Multiple sources; see metadata file 2016 -	2017
Wetlands	FWS National Wetlands Inventory	1982

MN
GN
2°89
53 MILS
1°20
24 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
QB
Grid Zone Designation
14S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 McKinney West
2 McKinney East
3 Culleoka
4 Plano
5 Lavon
6 Garland
7 Rowlett
8 Rockwall
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

WYLIE, TX
2019

NSN 7643016398971
NGA REF NO. USGSX24K49956

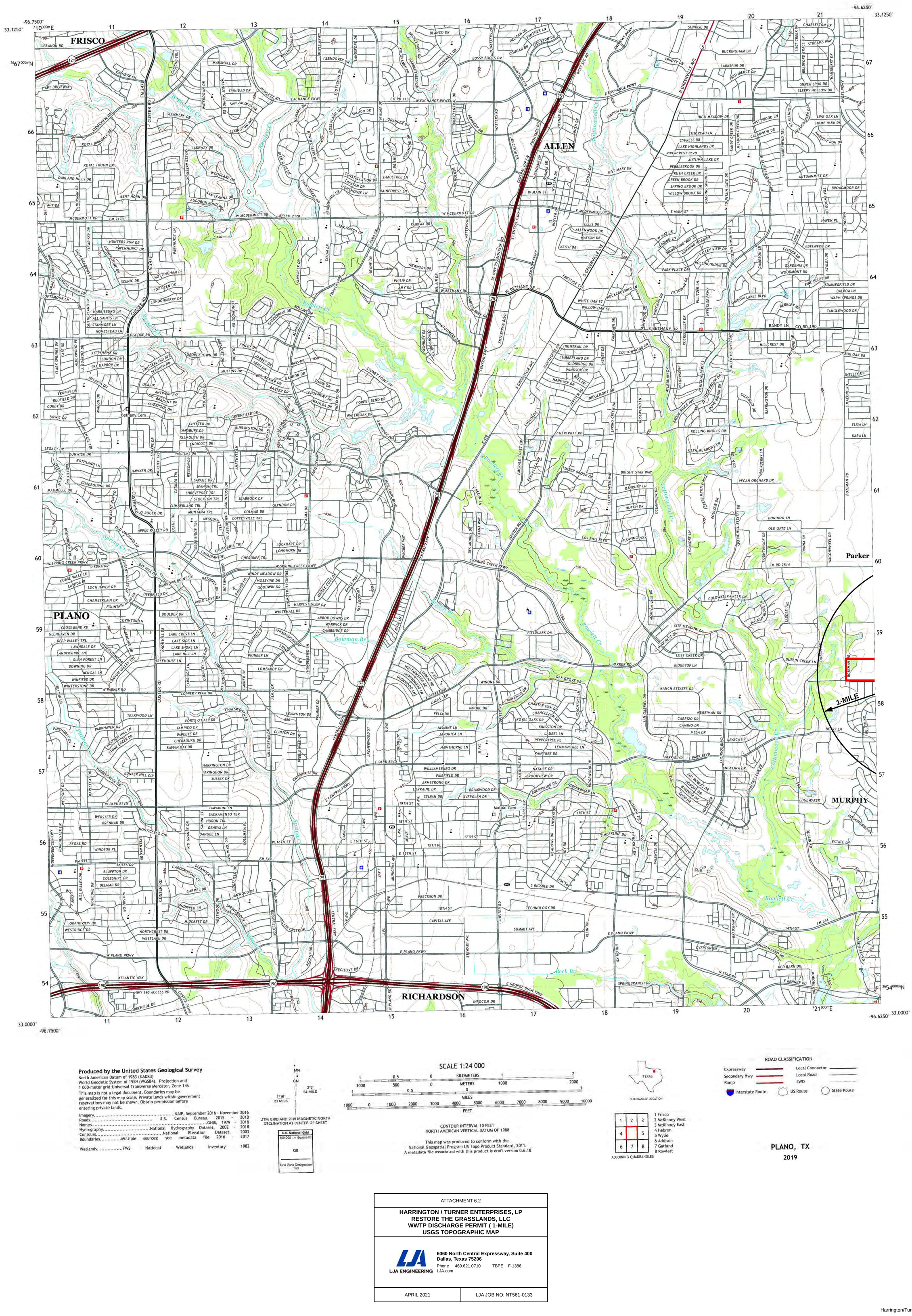
ATTACHMENT 6.1	
HARRINGTON / TURNER ENTERPRISES, LP RESTORE THE GRASSLANDS, LLC WWTP DISCHARGE PERMIT (1-MILE) USGS TOPOGRAPHIC MAP	
LJA ENGINEERING **6060 North Central Expressway, Suite 400 Dallas, Texas 75206** Phone 469.621.0710 TBPE F-1386 LJA.com	
APRIL 2021	LJA JOB NO: NT561-0133

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

PLANO QUADRANGLE
TEXAS - COLLIN COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S

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Boundaries	Multiple sources; see metadata file 2016 -	2017
Wetlands	FWS National Wetlands Inventory	1982

MN
GN
3°3' 54 MILS
1°16' 23 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
QB
Grid Zone Designation 14S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

INDEX TO ADJOINING QUADRANGLES

1	2	3
4		5
6	7	8

1 Frisco
2 McKinney West
3 McKinney East
4 Hebron
5 Wylie
6 Addison
7 Garland
8 Rowlett

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route / State Route

PLANO, TX
2019

NSN 7643016397747
NGA REF NO. USGS24K3556

ATTACHMENT 6.2

HARRINGTON / TURNER ENTERPRISES, LP
RESTORE THE GRASSLANDS, LLC
WWTP DISCHARGE PERMIT (1-MILE)
USGS TOPOGRAPHIC MAP

LJA ENGINEERING
6060 North Central Expressway, Suite 400
Dallas, Texas 75206
Phone 469.621.0710 TBPE F-1386
LJA.com

APRIL 2021 | LJA JOB NO: NT561-0133

ATTACHMENT 7
DESCRIPTION OF THE TREATMENT PROCESS

(In reference to Domestic Technical Report 1.0, Section 2, Item A)

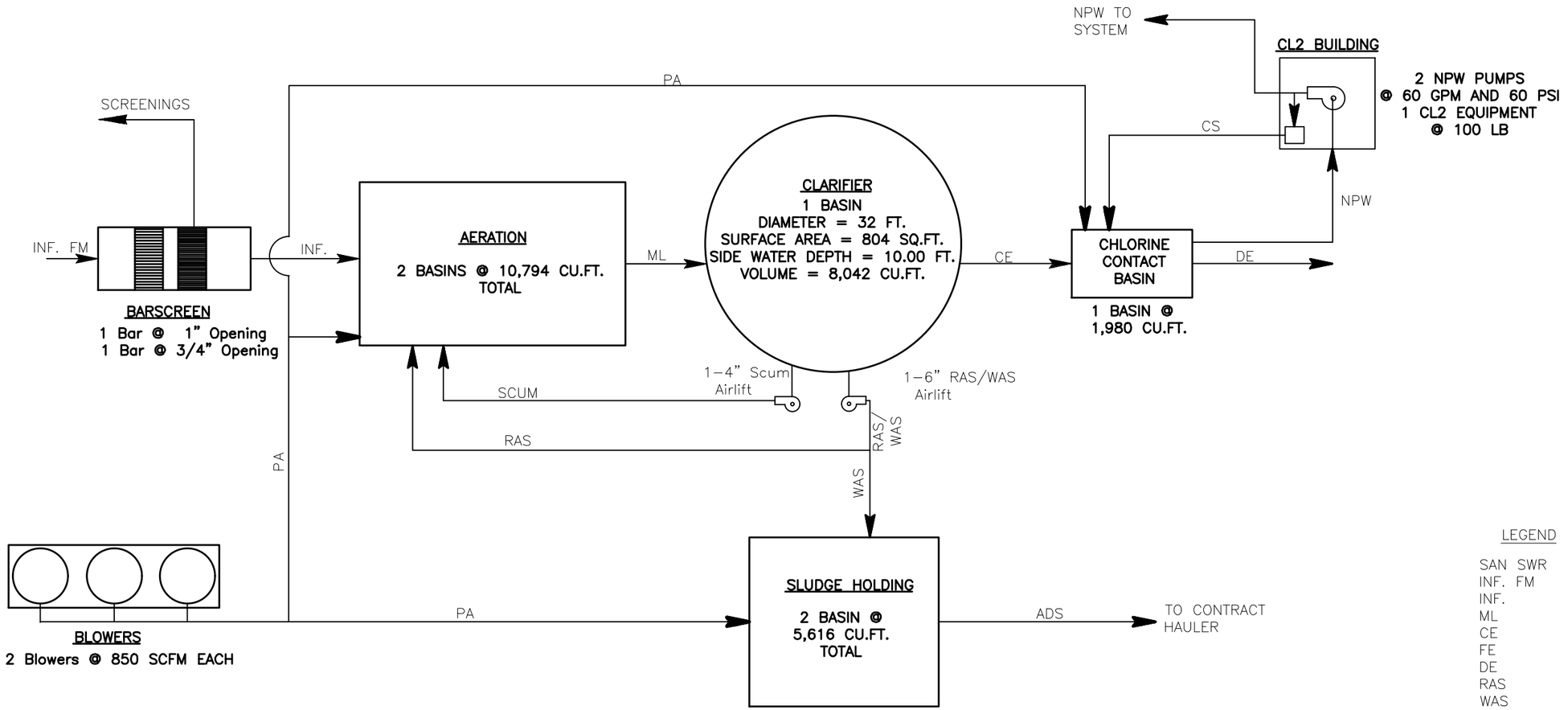
The treatment system includes a package plant employing the activated sludge process operating in the complete mix mode. The plant will be developed in two phases and will include one treatment train when complete. Phase 1 and the final Phase 2 will have a capacity of 0.10 MGD and 0.20 MGD respectively. In the final phase 2, the plant will have a common header between the aeration basins and clarifier to allow for flexibility in plant repairs and operations. Since the chlorine contact basin will be sized for the final Phase 2, the two planned phases will have a common outfall and sampling point.

The completed treatment train will consist of steel “box car” units used for aeration and digestion. Two aeration basins, one split sludge digestion basin, one 40’ diameter clarifier and one chlorine contact basin will be fabricated for Phase 1. The final Phase 2 will include an additional aeration basin, but will utilize the Phase 1 clarifier, chlorine contact basin and split digestion basin.

Influent to this facility will be pumped from an on-site lift station to a bar screen. In the final Phase 2, the bar screen will include a flow splitter thus splitting the influent to each bank of aeration basins. The mixed liquor from the aeration basins will flow to the clarifier. The clarified effluent from the clarifier will then flow to the chlorine contact basin and the disinfected plant effluent will outfall via a 24” pipe to an unnamed channel. Sludge will be returned to the aeration basins then wasted to the digester basins via air lifts. Sludge from the digesters will be truck hauled to another WWTP for dewatering before being disposed at a registered disposal site.

Attachment No. 8			
Treatment Units	**# of Units**	**Dimensions (L*W*D) (ft.)**	
Aeration Basin	2	40*12*13.2	INTERIM PHASE 1 0.10 MGD
Clarifier	1	32*Dia*14.2	
Cl2 Contact Basin	1	15*12*12	
Aerobic Digester	2	20*12*13.2	
Aeration Basin	2	40*12*13.2	ULTIMATE PHASE 0.20 MGD
Aeration Basin	1	40*12*13.2	
Clarifier	1	32*Dia*14.2	
Cl2 Contact Basin	1	15*12*12	
Aerobic Digester	**1**	**20*12*13.2**	
Aerobic Digester	2	20*12*13.2	

Bolded	New processes
Shaded	Existing processes



LEGEND

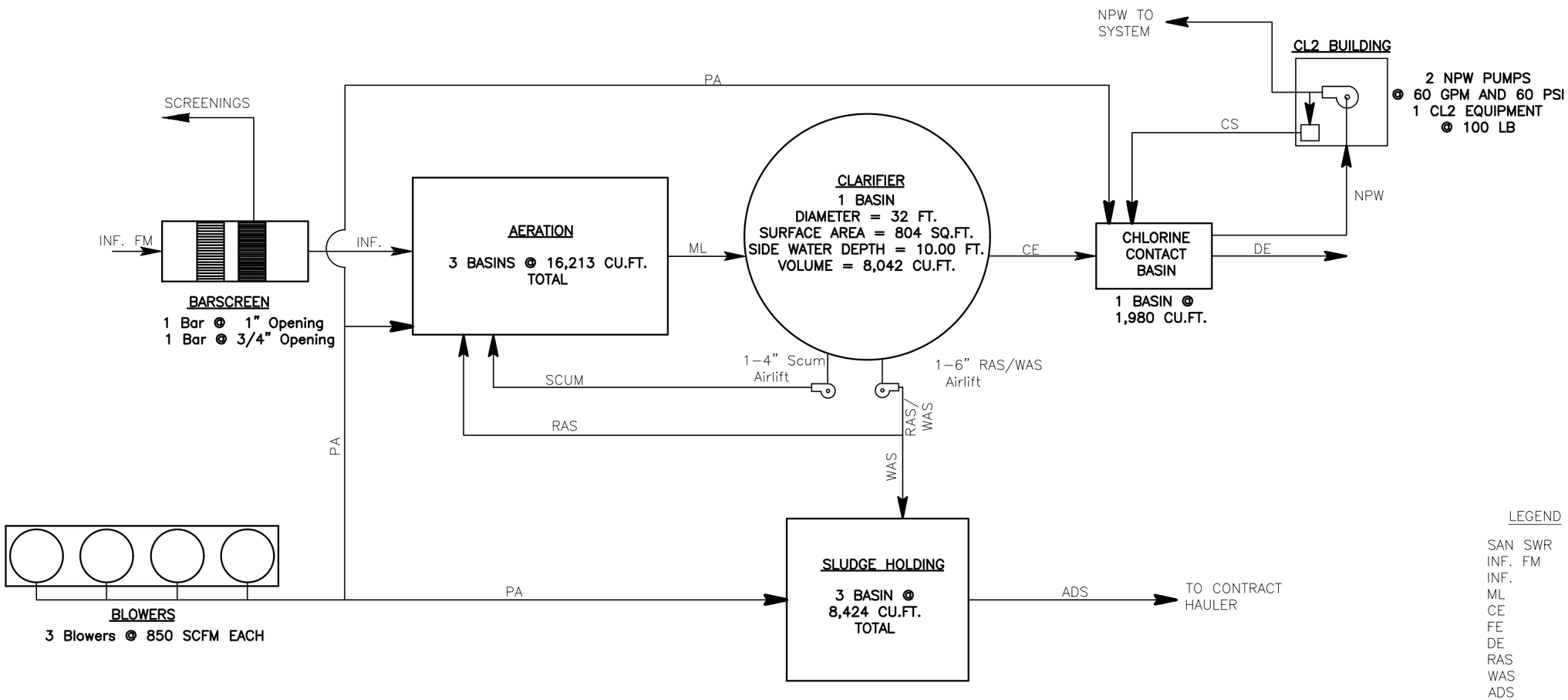
SAN SWR	SANITARY SEWER
INF. FM	INFLUENT FORCE MAIN
INF.	INFLUENT
ML	MIXED LIQUOR
CE	CLARIFIED EFFLUENT
FE	FILTERED EFFLUENT
DE	DISINFECTED EFFLUENT
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
ADS	AEROBICALLY DIGESTED SLUDGE
NPW	NON-POTABLE WATER
CS	CHLORINE SOLUTION
TOW	TOP OF WALL ELEVATION
FG	FINISHED GRADE ELEVATION
WSEL	WATER SURFACE ELEVATION
PA	PRESSURE AIR

PHASE	AVG. DAILY FLOW	PEAK FLOW
PHASE 1	0.10 MGD	0.40 MGD

ATTACHMENT 9.1

PROCESS FLOW DIAGRAM
INTERIM PHASE 1 – 0.10 MGD

LJA Engineering, Inc.
3600 W Sam Houston Parkway S.
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
TBPE FRN - F-1386



LEGEND

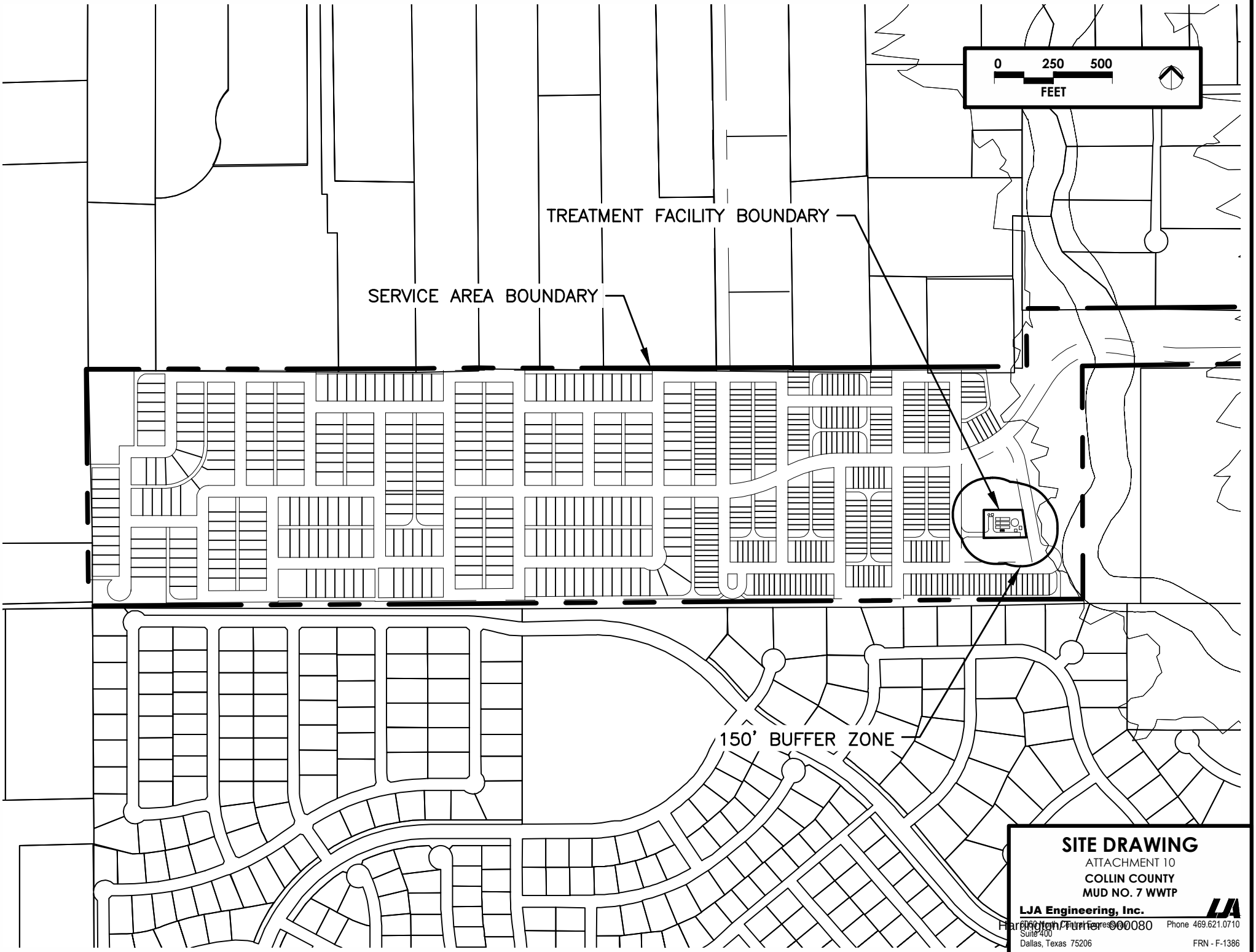
SAN SWR	SANITARY SEWER
INF. FM	INFLUENT FORCE MAIN
INF.	INFLUENT
ML	MIXED LIQUOR
CE	CLARIFIED EFFLUENT
FE	FILTERED EFFLUENT
DE	DISINFECTED EFFLUENT
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
ADS	AEROBICALLY DIGESTED SLUDGE
NPW	NON-POTABLE WATER
CS	CHLORINE SOLUTION
TOW	TOP OF WALL ELEVATION
FG	FINISHED GRADE ELEVATION
WSEL	WATER SURFACE ELEVATION
PA	PRESSURE AIR

PHASE	AVG. DAILY FLOW	PEAK FLOW
PHASE 1	0.10 MGD	0.40 MGD
PHASE 2	0.20 MGD	0.80 MGD

ATTACHMENT 9.2

PROCESS FLOW DIAGRAM
(ULTIMATE) PHASE 2 – 0.20 MGD

LJA Engineering, Inc.
3600 W Sam Houston Parkway S.
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386



SITE DRAWING

ATTACHMENT 10

COLLIN COUNTY
MUD NO. 7 WWTP

LJA Engineering, Inc.
2000 North Central Expressway
Suite 400
Dallas, Texas 75206
Phone 469.621.0710
FRN - F-1386

Harrington/Turner 080080

HARRINGTON / TURNER ENTERPRISES, LP
RESTORE THE GRASSLANDS, LLC
WWTP DISCHARGE PERMIT

ATTACHMENT 11
NEARBY DOMESTIC PERMITTED WWTFS
(WITHIN 3-MILE RADIUS)

APRIL 2021

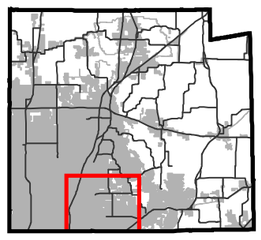
LEGEND

- APPLICANT'S PROPERTY BOUNDARY
- 3-MILE RADIUS
- POINT OF DISCHARGE
- WASTEWATER OUTFALLS

N
W E
S

1 0.5 0 1
Miles

DATA SOURCE: TCEQ OUTFALLS - UPDATED 10/16/2020



COLLIN COUNTY

AERIAL PHOTOGRAPH DATE: NEARMAP 2021

LJA ENGINEERING
6060 North Central Expressway, Suite 440
Dallas, Texas 75206
Phone 469.621.0710 TBPE F-1386
LJA.com

Path: S:\NTX-LAND\0133\300 SUPPORT\370 Wastewater\Discharge Permit\Support\GIS Coordination\MXD\Discharge Permit_Attachment 11_20210414.mxd

ALLEN
LUCAS
PARKER
PLANO
MURPHY
WYLIE
RICHARDSON
SACHSE
AND
75
2514
190
78
11451-001
14935-001
10363-001

PERMIT NUMBER	PERMITEE
10363-001	NORTH TEXAS MUNICIPAL WATER DISTRICT

Harrington/Turner_000081

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021 **VIA CERTIFIED MAIL**

City of Wylie
949 Hensley Lane, Building 300
Wylie, Texas 75098

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Wylie has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

□ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

□ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: _____ Title: _____

Signature: _____ Date: _____

USPS TRACKING #

9590 9402 4830 9032 8332 10

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

LJA Engineering
3600 W. Sam Houston Pkwy. S. Ste. #600
Houston, Texas 77042

Ashley Broughton
713-553-9799
4/27/21 Harrington/Turner 000083
Job # NT561D138(2.0)

SENDER: *COMPLETE THIS SECTION*

- **Complete items 1, 2, and 3.**
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

City of Wylie
949 Hensley Lane
Building 300
Wylie, TX 75098

9590 9402 4830 9032 8332 10

2. Article Number *(Transfer from service label)*

7019 2970 0000 2906 4503

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x City of Wylie ☑ Agent ☐ Addressee

B. Received by *(Printed Name)* DG RTS CV-19

C. Date of Delivery 04-30-21

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☑ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Harrington/Turner, 000084

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

LJA ENGINEERING

3600 W Sam Houston Pkwy S. Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021

VIA CERTIFIED MAIL

City of Parker
5700 E. Parker Rd.
Parker, TX 75002

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Parker has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

☒ we do not have any wastewater treatment facility

- ☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____
- ☐ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: Gary Machado Title: Public Works Director

Signature: _____ Date: May 11, 2021

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021 **VIA CERTIFIED MAIL**

City of Murphy
206 N. Murphy Rd.
Murphy, TX 75094

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Murphy has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

□ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

□ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: _____ Title: _____

Signature: _____ Date: _____

Ashley Broughton

From: Jaison Stephen
Sent: Thursday, November 18, 2021 1:55 PM
To: Ashley Broughton
Subject: FW: Water / Wastewater Service

From: Timothy Rogers <TRogers@murphytx.org>
Sent: Monday, December 14, 2020 4:58 PM
To: Jaison Stephen <jstephen@lja.com>
Subject: RE: Water / Wastewater Service

[EXTERNAL EMAIL]

The City of Murphy is not interested in providing water and wastewater to any outside jurisdictions.

Regards,

Tim Rogers
Public Services Director
trogers@murphytx.org
O: (972) 468-4353
C: (321) 704-4699
www.murphytx.org

City of Murphy
LIFE LIVED AT YOUR PACE™

"Murphy values being a safe, vibrant, family-oriented, distinctive City that fosters a strong sense of community."

Please consider the environment before printing this email.

From: Jaison Stephen <jstephen@lja.com>
Sent: Friday, December 11, 2020 1:03 PM
To: Timothy Rogers <TRogers@murphytx.org>
Subject: Water / Wastewater Service

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good afternoon Mr. Rogers,

Hope you are well.

We are working on the property highlighted in red on the attached exhibit located in the City of Parker ETJ. Parker is not able to provide water and wastewater service to the property. We are reaching out to see if the City of Murphy has water and wastewater infrastructure in the area with capacity to service this property for approximately 550 residential lots.

Please let us know. We would be happy to set up a virtual meeting to discuss.

Thank you,
Jaison

Jaison M. Stephen, P.E.
Sr. Project Manager

LJA Engineering | We Build Civilization ®
North Texas
P: 469.484.0776
C: 214.803.2139
www.lja.com
Facebook • Twitter • LinkedIn

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021

VIA CERTIFIED MAIL

City of Plano
1520 K Avenue
Plano, TX 75074

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Plano has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: B. Caleb Thornhill Title: Director of Environmental

Signature: [signature] Date: 5/20/2021

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021

VIA CERTIFIED MAIL

City of Allen
305 Century Parkway
Allen, Texas 75013

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Allen has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: STEPHEN B. MASSEY, P.E. Title: Director of Community Services

Signature: Stephen B. Massey Date: 10-17-2021

allen has no wastewater treatment facilities.

Steve Massey - 214-509-4501

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953 5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021

VIA CERTIFIED MAIL

City of Lucas
665 Country Club Road
Lucas, Texas 75002-7651

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Lucas has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

☑ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: Joni Clarke Title: City Manager

Signature: Joni Clarke Date: 7/6/21

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021 **VIA CERTIFIED MAIL**

City of Richardson
411 W. Arapaho Road
Suite 204
Richardson, TX 75080

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the City of Richardson has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

□ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

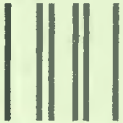
□ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: _____ Title: _____

Signature: _____ Date: _____

USPS TRACKING #

9590 9402 4830 9032 8331 59



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

United States Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

LJA Engineering
3600 W. Sam Houston Pkwy. S. Ste. #600
Houston, Texas 77042

Ashley Broughton
713-553-9799.
4/27/21
Job # NT561-0183(2.0)

Harrington/Turner 000093

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

City of Richardson
411 W. Arapaho Road
Suite 204
Richardson, TX 75080

9590 9402 4830 9032 8331 59

2. Article Number *(Transfer from service label)*

7019 2970 0000 2906 4565

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Tracy Scott ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Tracy Scott

C. Date of Delivery 4/30/21

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☑ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Harrington/Turner 000094

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

April 27, 2021 **VIA CERTIFIED MAIL**

North Texas Municipal Water District
501 East Brown St.
P.O. Box 2408
Wylie, TX 75098

Re: Wastewater Service Request for Collin County MUD No. 7 WWTP
LJA Job No. NT561-0133 (2.0)

To Whom It May Concern:

We are currently preparing an application for a discharge permit for the Collin County MUD No. 7 Wastewater Treatment Plant, in Collin County. The proposed development will require 0.20 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant or collection system within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred system is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the NTMWD WWTP with TPDES Permit No. WQ0010363001 has available capacity. After you have made the required indication, please email (abroughton@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Ashley Broughton, PE
Project Manager

□ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

□ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: _____ Title: _____

Signature: _____ Date: _____

USPS TRACKING #

9590 9402 4830 9032 8331 66

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

LJA Engineering
3600 W. Sam Houston Pkwy. S. Ste. #600
Houston, Texas 77042

Ashley Broughton
713-553-9799
4/27/21
Job # NT561-0133(2.0)

Harrington/Turner 000096

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

North Texas Municipal Water District
501 East Brown St.
P.O. Box 2408
Wylie, TX 75098

9590 9402 4830 9032 8331 66

2. Article N

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise

nfirmation™
nfirmation
elivery

Harrington/Turner 000097

PS Form 3

rn Receipt

Attachment 13

Project Name: Collin County MUD No. 7 WWTP

Wastewater Treatment Plant
Process Design Calculations

Project #:

WWTP Influent Flow

			Phase 1	Phase 2
Average Daily Flow		gpd	100,000	200,000
Peaking Factor			4	4
Peak Flow		gpd	400,000	800,000
Equivalent Single Family Connections		ESFC	333	666
Water Usage per Connection		gal/ESFC	300	300

WWTP Organic Parameters

BOD_5	300	mg/L		
NH_3	64	mg/L		
BOD Loading		lbs/d	250	500

Aeration Basin Design

Process Description	Temperatures Exceed 15C			
Organic Loading Rate	35	lbs BOD5/day/1,000ft3		
Minimum Free Board	1.5	ft		
Minimum Aeration Volume		ft^3	7,149	14,297
Number of Tanks			2	3
Length		ft	40	40
Width		ft	12	12
Height of Basin		ft	13.2	13.2
Calculated Side Water Depth at Average Flow		ft	11.24	11.26
Calculated Side Water Depth at Peak Flow			11.29	11.35
Proposed Free Board at Peak Flow		ft	1.50	1.50
Proposed Volume		ft^3	10,794	16,213

Secondary Clarifier Design

Process Desription	Activated Sludge - Secondary, Enhanced Secondary, or Secondary With			
Maximum Surface Loading @ 2-hr Peak Flow	1,200	gpd/ft^2		
Minimum Detention Time	1.8	hrs		
Minimum SWD	10	ft		
Minimum Free Board	1	ft		
Maximum Weir Loading		gpd/lf	20,000	20,000
Maximum Vertical Velocity in Stilling Well	0.15	ft/s		
Minimum Surface Area Required		ft^2	333	667
Number of Clarifiers			1	1
Diameter		ft	32	32
Proposed Weir Loading		gpd/lf	4,244	8,488
Height of Clarifier		ft	14.20	14.20
Calculated Side Water Depth		ft	10.00	10.0

Proposed Free Board at Peak Flow		ft	1.00	1.00
Proposed Surface Area		ft^2	804	804
Proposed Volume		ft^3	8,042	8,042
Proposed Detention Time		hrs	3.61	1.80
Stilling Well Diameter		ft	8.0	8.0
Proposed Stilling Well Velocity		ft/s	0.01	0.02

Chlorine Contact Basin

Minimum Contact Time	20	min		
Minimum Free Board	1	ft		
Number of Basins			1	1
Width of Tank	12	ft	12	12
Height of Tank	12	ft	12	12
Calculated Side Water Depth at Peak Flow		ft	11.00	11.00
Calculated Free Board at Peak Flow		ft	1.00	1.00
Proposed Length of Tank	15	ft	15	15
Proposed Volume		ft^3	1,980	1,980
Proposed Detention Time		min	53.32	26.66

Aerobic Digester Design

Volatile Soilds Wasted (From Solids Balance)		lbs/d	165	330
TCEQ Loading Rate	200	$lbs/d/1{,}000ft^3$		
$V = \frac{P_{x,tss}}{LoadingRate}$				
Minimum Required Volume		ft^3	825	1,650
Number of Digesters			2	3
Width		ft	12	12
Depth		ft	11.7	11.7
Length		ft	20	20
Proposed Volume		ft^3	5,616	8,424

Chlorine Dosage Requirements

Type of Effluent	Activated Sludge			
Chlorine Concentration	8	mg/L		
Storage of Chlorine Tanks	Temperature-Controlled Enclosure			
Low Ambient Temperature	65	°F		
Required Chlorine Dosage		lbs/d	27	53
Withdrawal Rate per 150-lb Chlorine Cylinder	65	lbs/d		
Withdrawal Rate per 1-ton Chlorine Cylinder	520	lbs/d		
Number of 150-lb Chlorine Cylinders per Bank			1	2
Number of 1-ton Chlorine Cylinders per Bank			0	0
Proposed Maximum Chlorine Withdrawal Rate			65	130

Air Requirements

Aeration Basins

Type of Diffuser	Coarse Bubble Diffuser			
Transfer Efficency Factor	0.65			
Depth of Diffuser			10.24	10.26
Submergence Correction Factor			1.49	1.49
Clean Water Transfer Efficiency	8.40%			
Wastewater Transfer Efficiency	5.46%			
Aeration Oxygen Requirement	2.12	lb O_2/lb BOD_5		
Aeration Airflowrate		scfm	583	1,162
Mixing Oxygen Requirement	20	scfm/1,000 ft3		
Mixing Airflowrate		scfm	216	324
Required Airflowrate		scfm	583	1,162

Aerobic Digester

Type of Diffuser	Coarse Bubble Diffuser			
Required Mixing Air Rate	20	scfm/1,000 ft3		
Required Airflowrate		scfm	112.32	168.48

Chlorine Contact Basin

Effluent DO Concentration	4	mg/L		
Initial DO Concentration*	0	mg/L		
Diffuser Capacity	150%			
Required Oxygen at Peak Flow		lb O_2/d	13.35	26.70
Required Airflowrate		scfm	9.84	19.69
Airflowrate Required by Diffusers			14.77	29.53
Minimum Airdrops (10 scfm)			2	3

* Minimum DO Concentration in the Aeration Basin is 2 mg/L however, to be conservative an estimated DO of 0 mg/L has been assumed entering the CCB

Airlifts

Amount Required	110	scfm		

Total Air Requirement

Total Plant Required Air		scfm	815	1,460

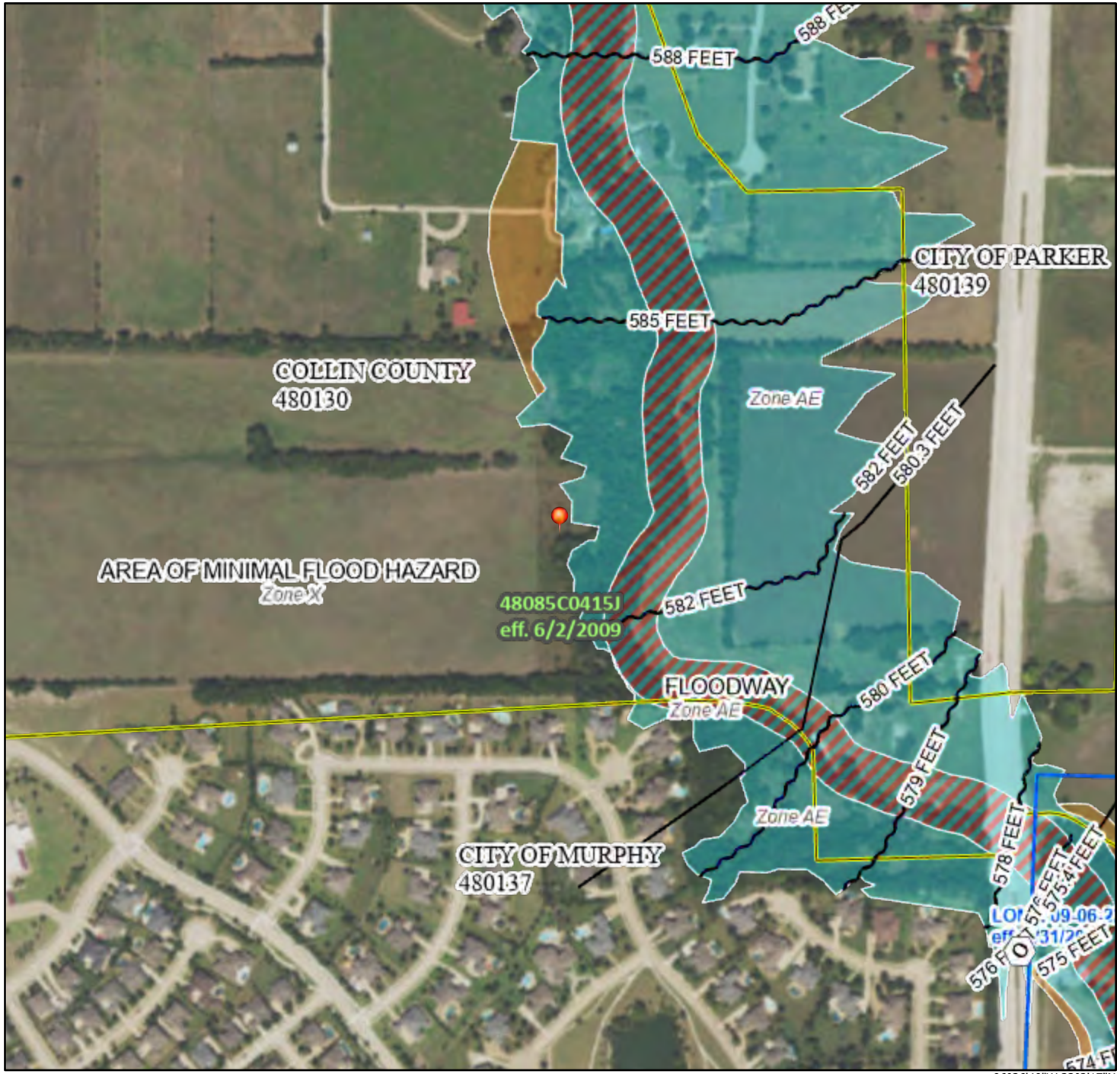
Blower Sizing

Blower Capacity	850	scfm		
Blower Required			1	2
Proposed Blowers			2	3

National Flood Hazard Layer FIRMette

FEMA

96°37'18"W 33°2'47"N



96°36'40"W 33°2'17"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

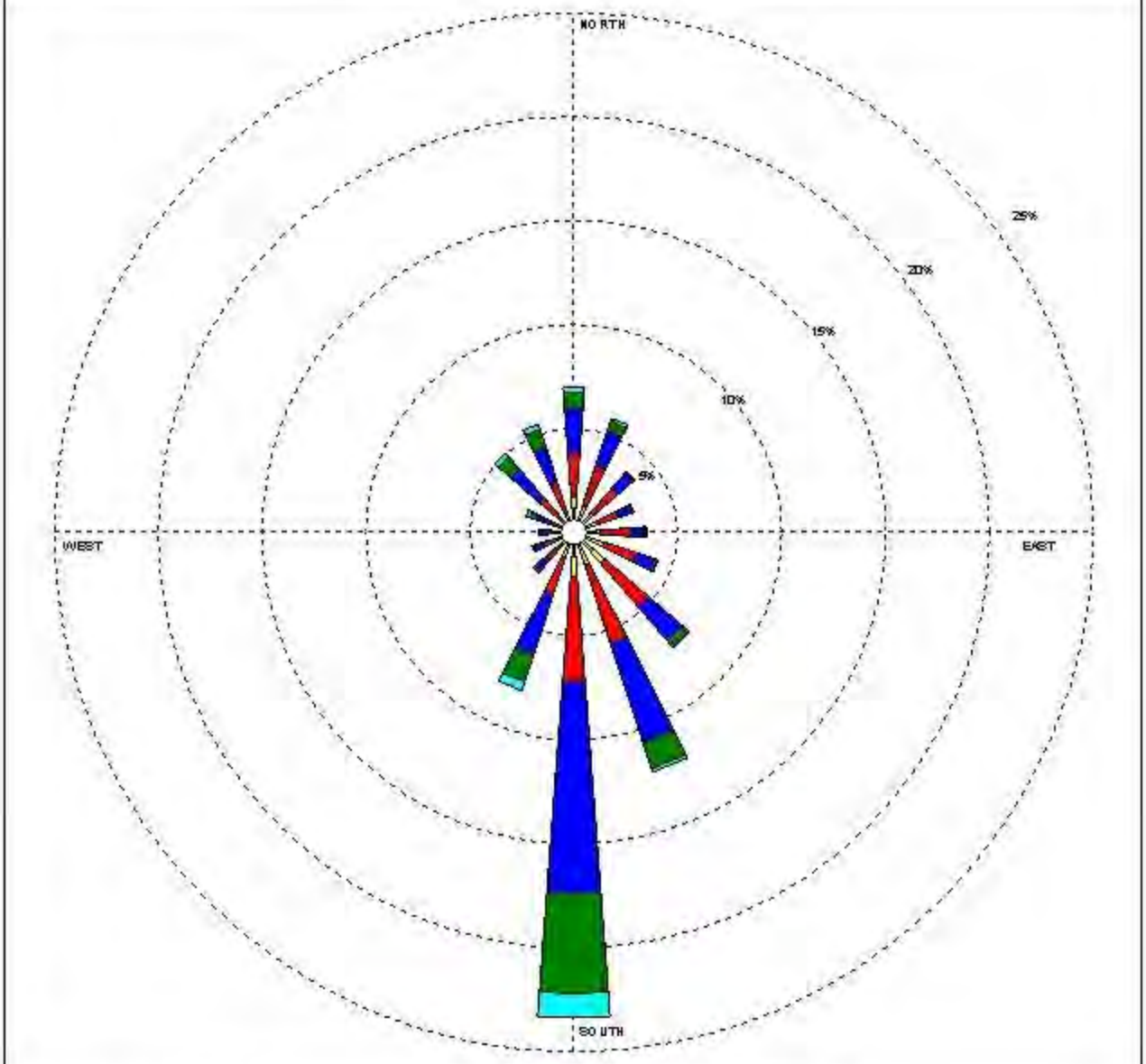
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/17/2021 at 10:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Attachment 14

WIND ROSE PLOT

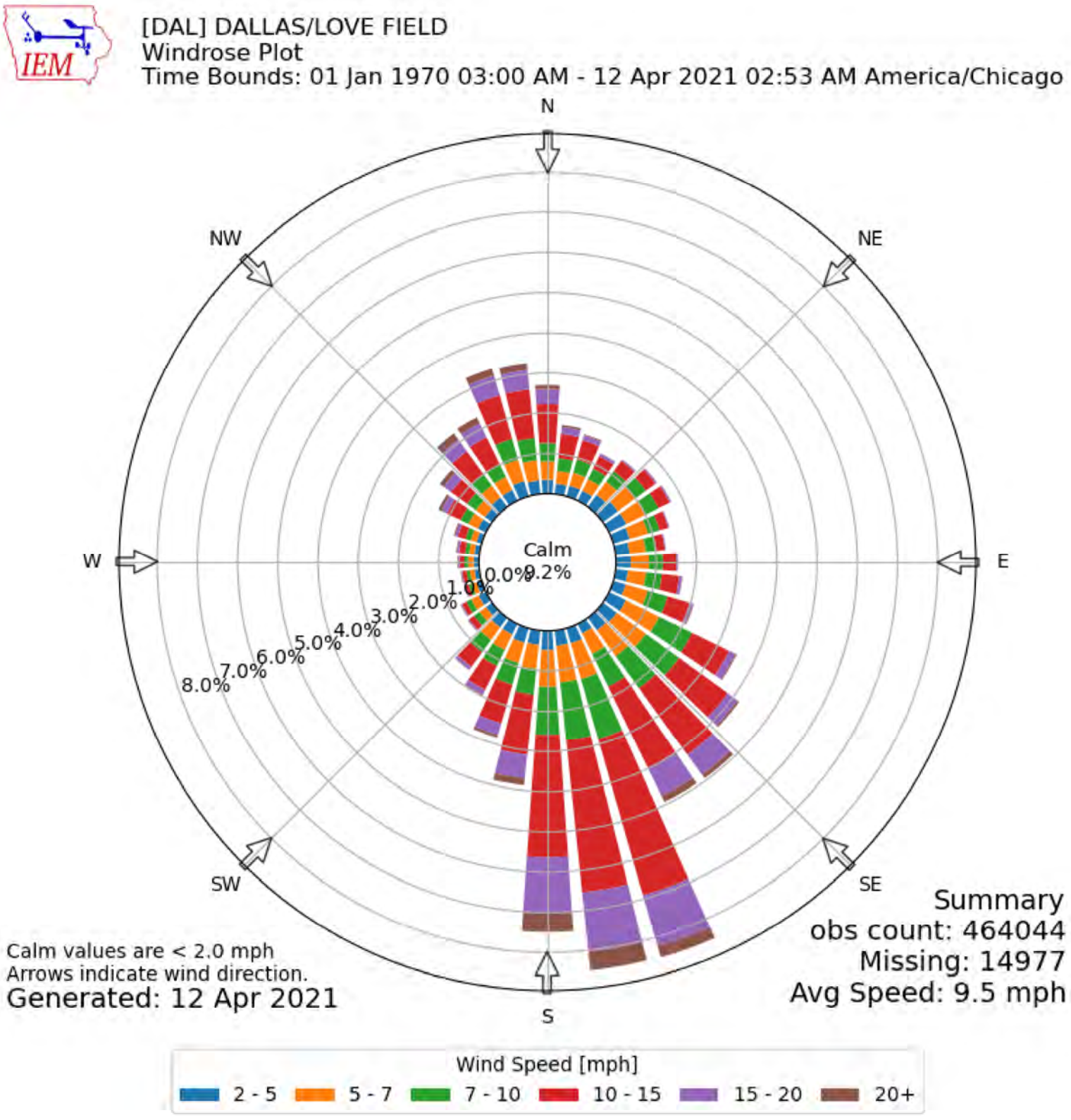
Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY: Wind Speed	UNIT: m/s	COMMENTS
AVG. WIND SPEED: 5.76 m/s	CALM WINDS: 2.32%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 1961 Apr 1 - Apr 30 Midnight - 11 PM	


[DAL] DALLAS/LOVE FIELD
Windrose Plot
Time Bounds: 01 Jan 1970 03:00 AM - 12 Apr 2021 02:53 AM America/Chicago
N
NE
E
SE
S
SW
W
NW
Calm
0.0%
1.0%
2.0%
3.0%
4.0%
5.0%
6.0%
7.0%
8.0%
9.2%
Calm values are < 2.0 mph
Arrows indicate wind direction.
Generated: 12 Apr 2021
Summary
obs count: 464044
Missing: 14977
Avg Speed: 9.5 mph
Wind Speed [mph]
2 - 5
5 - 7
7 - 10
10 - 15
15 - 20
20+

ATTACHMENT - 15

Sludge Management Plan

Phase 2 (Ultimate) - 0.20 MGD

Influent Design Flow	0.2	MGD
Influent BOD_5 Concentration	300	mg/L
Aerobic Digester Volume	63,006	Gal
Aeration Basin MLSS	2000	mg/L

SOLIDS GENERATED	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Pounds (lbs) Influent BOD5	500	375	250	125
Pounds (lbs) of digested dry sludge produced*	175	131	88	44
Pounds (lbs) of wet sludge produced	8757	6568	4379	2189
Gallons (Gal) of wet sludge produced	1050	788	525	263

*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD5 at average temperature and 2.0% solids concentration in the digester

Sludge will be wasted from the RAS flow stream to the aerobic digester.
Sludge solids will be stabilized in the digester
Supernatant will be decanted from the digester and returned to the plant headworks for treatment.

REMOVAL SCHEDULE (DAYS)	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Days between sludge removal	7	10	14	29

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. The calculated mean cell residence time (MCRT) for the digester storage volume of 63006 gal will be approximately 60 days at 100% capacity and annual average digested sludge produced of 175 ppd.