

## TPDES Permit New Application Submittal

Submitted to:

Texas Commission on Environmental Quality  
Application Review & Processing Team (MC-148)  
P.O. Box 13087  
Austin, Texas 78711-3087

For:

Studio Estates WWTP  
1075 Rohde Road  
Kyle, TX 78640

Owner:

Studio Estates, LLC  
7212 Goforth Road Suite 201  
Kyle, TX 78640

Issue Date: September 21, 2020



**consulting **environmental** engineers, inc.**

**150 n. harbin drive – suite 408 • stephenville, tx 76401**  
**phone: (254) 968-8130 fax: (254) 968-8134**  
**email: [ceeinc@ceeinc.org](mailto:ceeinc@ceeinc.org) registered firm: #F-2323**

# Studio Estates Exhibit Cross Reference

<u>Exhibit I.D.</u>	<u>Description</u>	<u>Reference</u>
I	Core Data Form 10400	Section 3 (C) page 4 of 21
II	Topographic Map	Item 13, page 11 of 20
III	Affected Landowners Map	Item 1 (a), page 13 of 20
IV	Affected Landowners Cross Reference	Item 1 (b), page 13 of 20
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VI VI(a)	Photographs Photograph Location map	Item 2, page 14 of 20
VII	Buffer Zone Map	Item 3 (a), page 14 of 20
VIII	SPIF Topographic Map	Item 5, page 16 of 20
IX	Flow Diagram	Item 2 (c), page 2 of 79
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XIV	Wind Rose	Item 5 (b), page 25 of 79
XV	Sewage Sludge Solids Management	Item 7, page 26 of 79
XVI	Copy of Check	



**Studio Estates  
Core Data Form 10400**





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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Approximately 1.03 miles southeast of the intersection of Niederwald Strasse Road and Goforth Road.										
26. Nearest City	Niederwald				State	TX		Nearest ZIP Code	78640		
27. Latitude (N) In Decimal:	30.02111			28. Longitude (W) In Decimal:	-97.76972						
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds						
30	01	16	-97	46	11						
29. Primary SIC Code (4 digits)	1521		30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)	236115		32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>											
To provide wastewater to business, restaurants, warehouses, and grocery/retail stores.											
34. Mailing Address:	7212 Goforth Road										
	Suite 201										
	City	Kyle		State	TX	ZIP	78640		ZIP + 4	4270	
35. E-Mail Address:											
36. Telephone Number				37. Extension or Code				38. Fax Number <i>(if applicable)</i>			
( 512 ) 590-4513								( ) -			

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

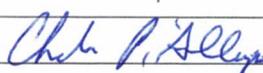
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review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

### SECTION IV: Preparer Information

40. Name:	Charles P. Gillespie			41. Title:	President
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
( 254 ) 968-8130		( 254 ) 968-8134	ceeinc@ceeinc.org		

### 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.

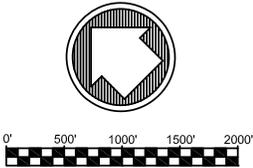
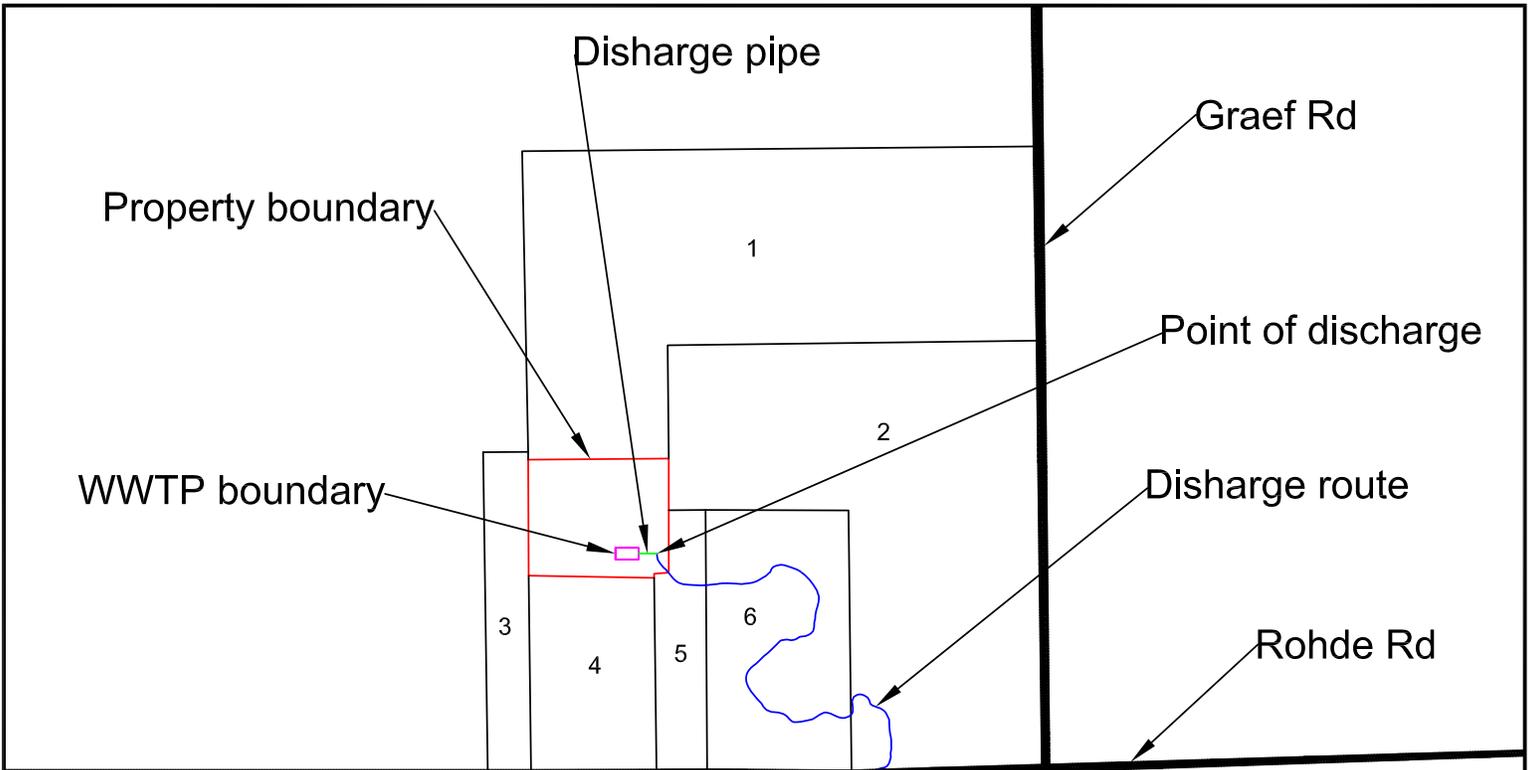
Company:	Consulting Environmental Engineers, Inc.	Job Title:	President
Name (In Print):	Charles P. Gillespie	Phone:	( 254 ) 968- 8130
Signature:		Date:	12-11-20

**Studio Estates  
Topographic Map**



**Studio Estates  
Affected Landowners Map**





<p>Date November 16, 2020</p> <p>Drawn By TL</p> <p>Scale AS SHOWN</p>	<p>consulting <b>environmental</b> engineers, inc. 150 n. harbin drive - suite 408 . stephenville, tx 76401 (254)968-8130 fax: (254)968-8134 email: ceo@ceeinc.org registered firm: #F-2323</p>	<p>Studio Estates WWTP 1075 Rohde Road Kyle, TX 78640</p> <p>Affected Landowners Map</p>	<p>Sheet 003</p>
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**Studio Estates  
Affected Landowners Cross Reference**

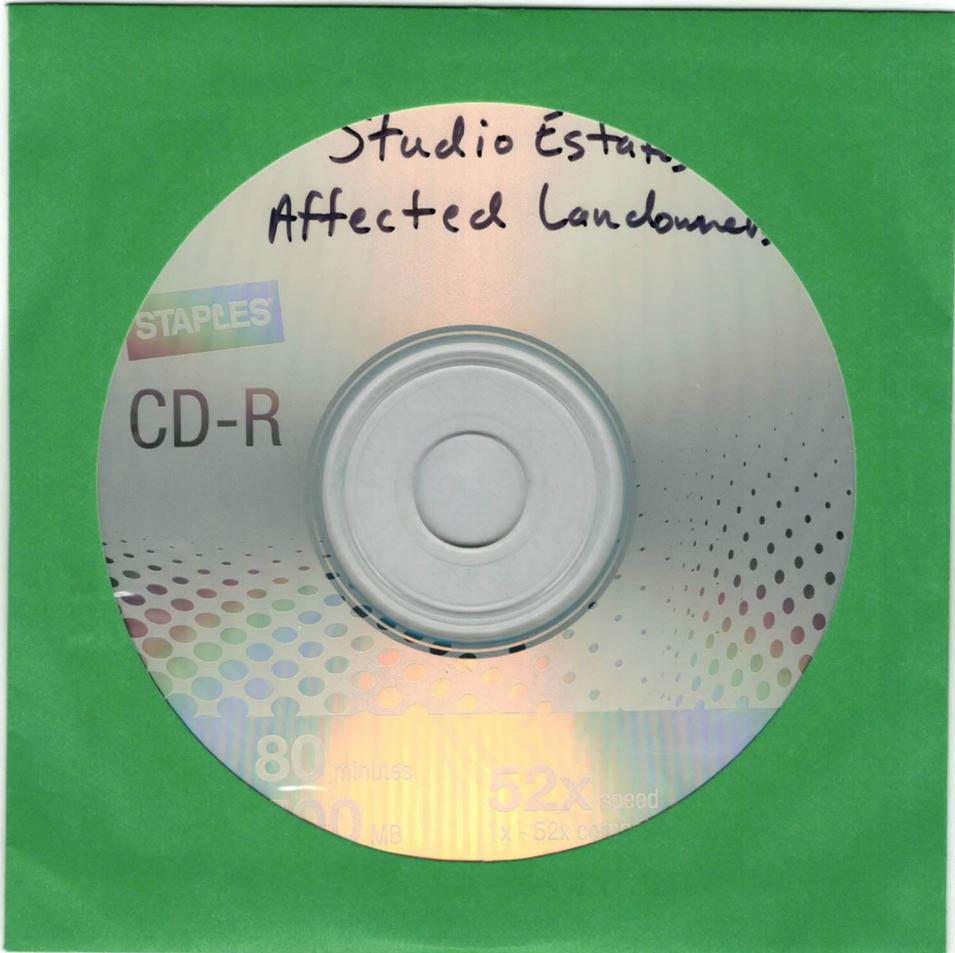


Studio Estates, LLC  
Wastewater Permit Application  
Affected Landowners Cross Reference  
Exhibit IV

1. Rudolph & Laura Braune  
100 Graef Rd.  
Kyle, TX 78640
2. Triple Ewald Farms, LLC  
1601 Rohde Rd.  
Niederwald, TX 78640
3. Stephen L Hopkins Sr.  
Rohde Rd.  
Niederwald, TX 78640
4. Studio Estates, LLC  
1075 Rohde Rd.  
Kyle, TX 78640
5. John T. McCormick  
Rohde Rd.  
Kyle, TX 78640
6. Rodney & Dianne Dupree & Beverly Elliot  
1501 Rohde Rd.  
Niederwald, TX 78640
7. Maxwell Settlement Trust  
1500 Rohde Rd.  
Kyle, TX 78640
8. John T. McCormick  
1618 Rohde Rd.  
Kyle, TX 78640

**Studio Estates  
Affected Landowners Disk**





# Studio Estates Photographs



# WWTP Site Location



Date  
September 18, 2020  
Drawn By  
TL  
Scale  
NTS

consulting environmental engineers, inc.  
150 n. harbin drive - suite 408 . stephenville, tx 76401  
(254)968-8130 fax: (254)968-8134 email: ceelnc@ceelnc.org  
registered firm: #F-2323

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640

WWTP Site Location Photo

Sheet 004  
00014

# Upstream



Date  
September 18, 2020

Drawn By  
TL

Scale  
NTS

consulting **environmental** engineers, inc.  
150 n. harbin drive - suite 408 . stephenville, tx 78401  
(254)968-8130 fax: (254)968-8134 email: ceelnc@ceelnc.org  
registered firm: #F-2323

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640

Upstream and Downstream Photos

Sheet 005

00015

# Downstream



Date  
September 18, 2020  
Drawn By  
TL  
Scale  
NTS

consulting environmental engineers, inc.  
150 n. harbin drive - suite 408 - stephenville, tx 76401  
(254)968-8130 fax: (254)968-8134 email: ceengineers@ceeinc.org  
registered firm: #F-2323

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640

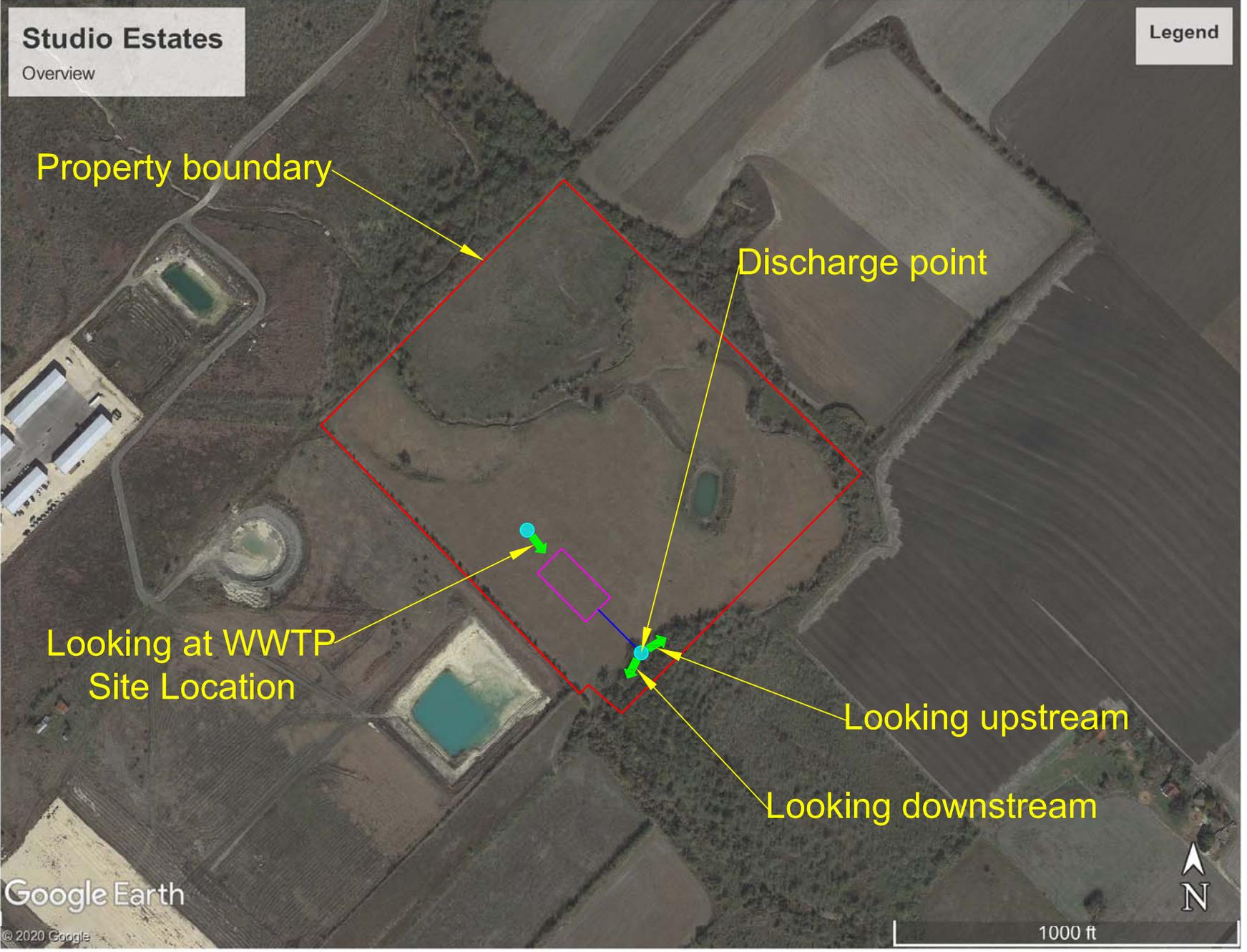
Upstream and Downstream Photos

Sheet 006

0016

# Studio Estates Photograph Location Map





**Studio Estates**  
Overview

Legend

Property boundary

Discharge point

Looking at WWTP  
Site Location

Looking upstream

Looking downstream

Google Earth

1000 ft



Date  
September 18, 2020  
Drawn By  
TL  
Scale  
AS SHOWN

consulting **environmental** engineers, inc.  
150 a. hugh drive - suite 408 - stephenville, tx 76401  
(254)988-8130 fax: (254)988-8134 email: cen@ceeinc.org  
registered firm # 2223

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640  
Photograph Map

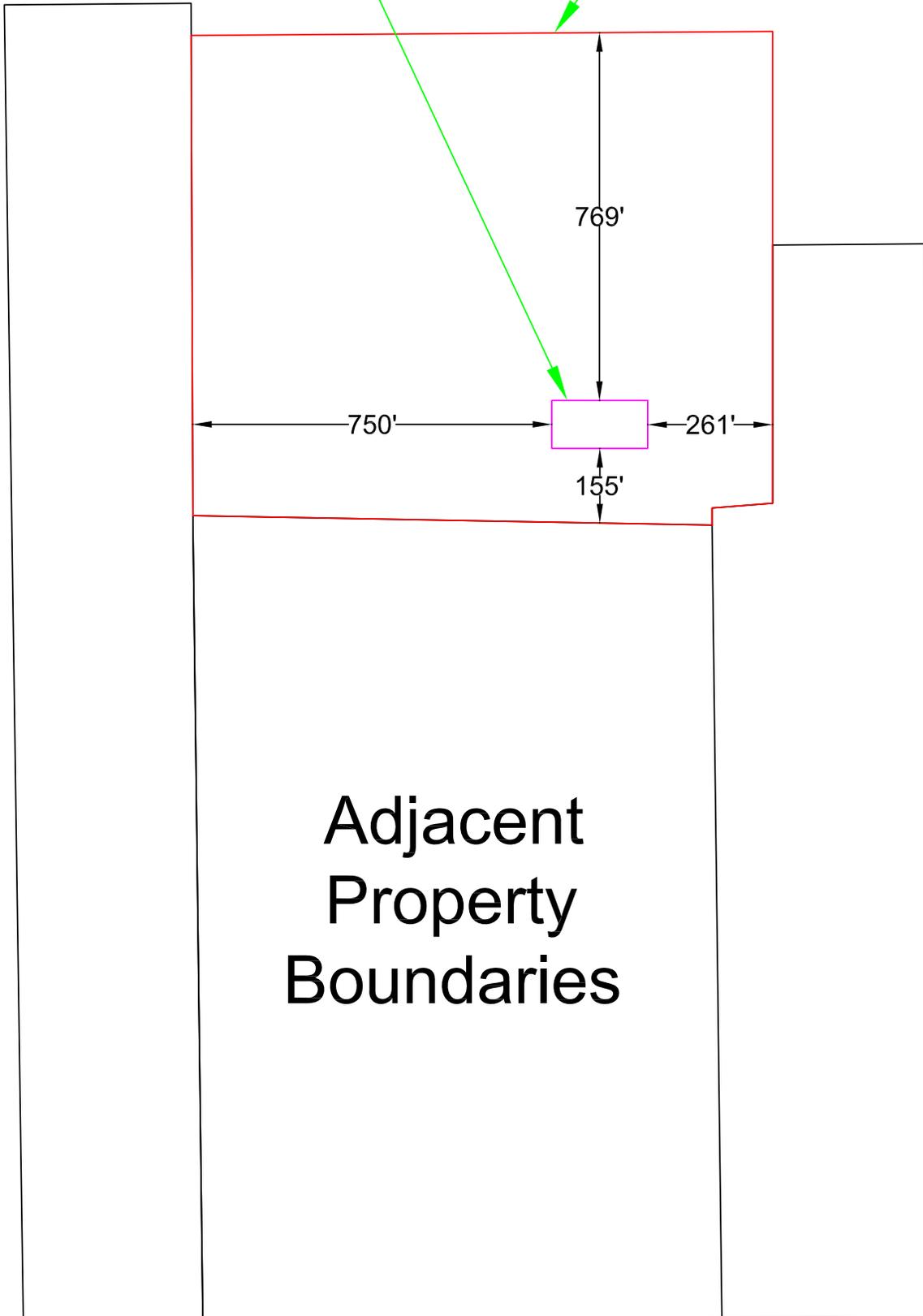
Sheet 007

**Studio Estates  
Buffer Zone Map**



WWTP boundary

Property boundary



Adjacent  
Property  
Boundaries

Date  
September 18, 2020  
Drawn By  
TL  
Scale  
1":315'

consulting environmental engineers, inc.  
150 n. harbin drive - suite 408 · stephenville, tx 76401  
(254)968-8130 fax: (254)968-8134 email: ceelnc@ceelnc.org  
registered firm: #F-2323

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640  
Buffer Zone Map

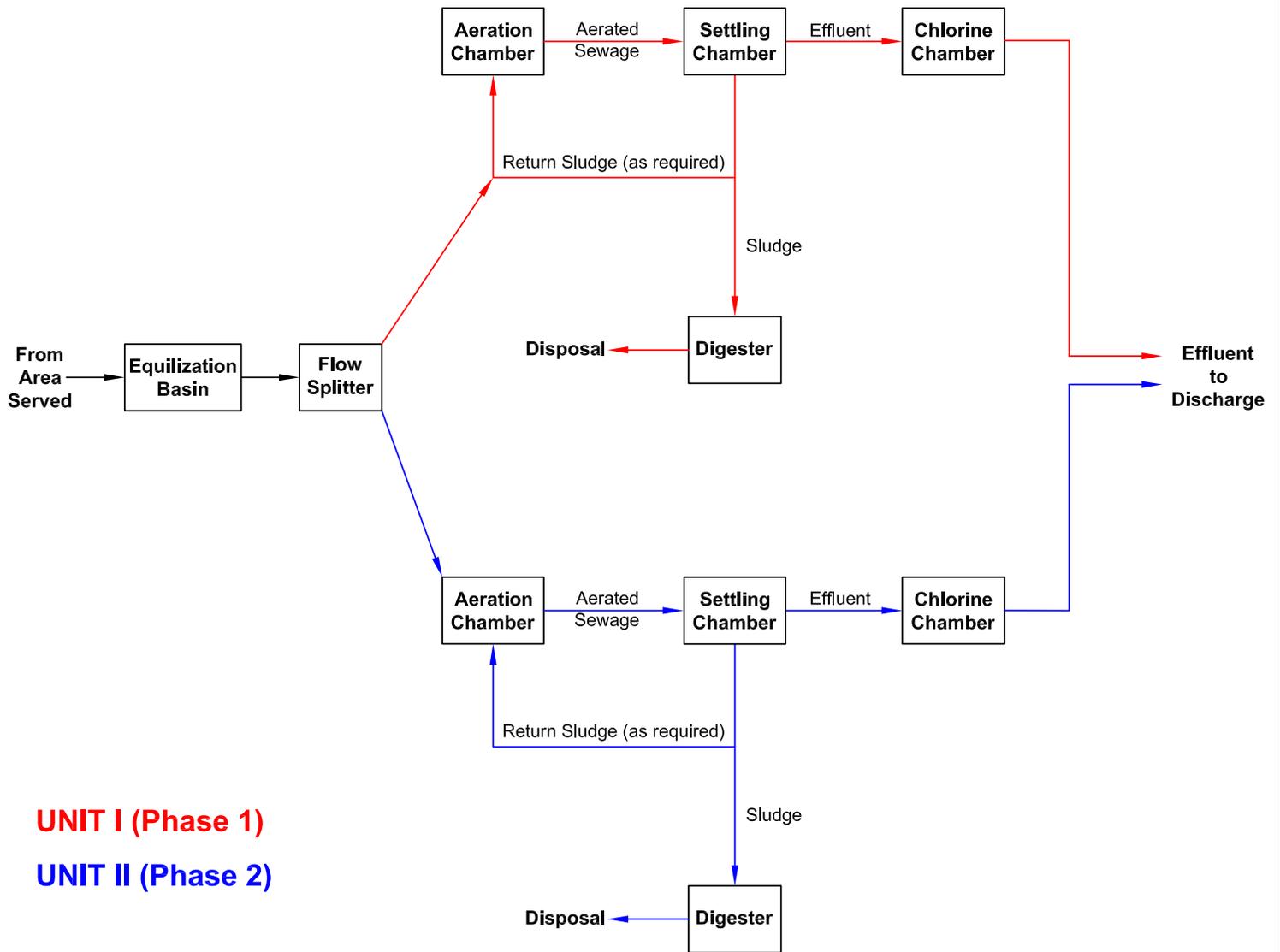
Sheet 008  
00020

**Studio Estates  
SPIF Topographic Map**



# Studio Estates Flow Diagram





Date  
September 18, 2020  
Drawn By  
TL  
Scale  
NTS

consulting environmental engineers, inc.  
150 n. harbin drive - suite 408 . stephenville, tx 76401  
(254)968-8130 fax: (254)968-8134 email: ceo@ceeinc.org  
registered firm: #F-2323

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640  
Flow Diagram

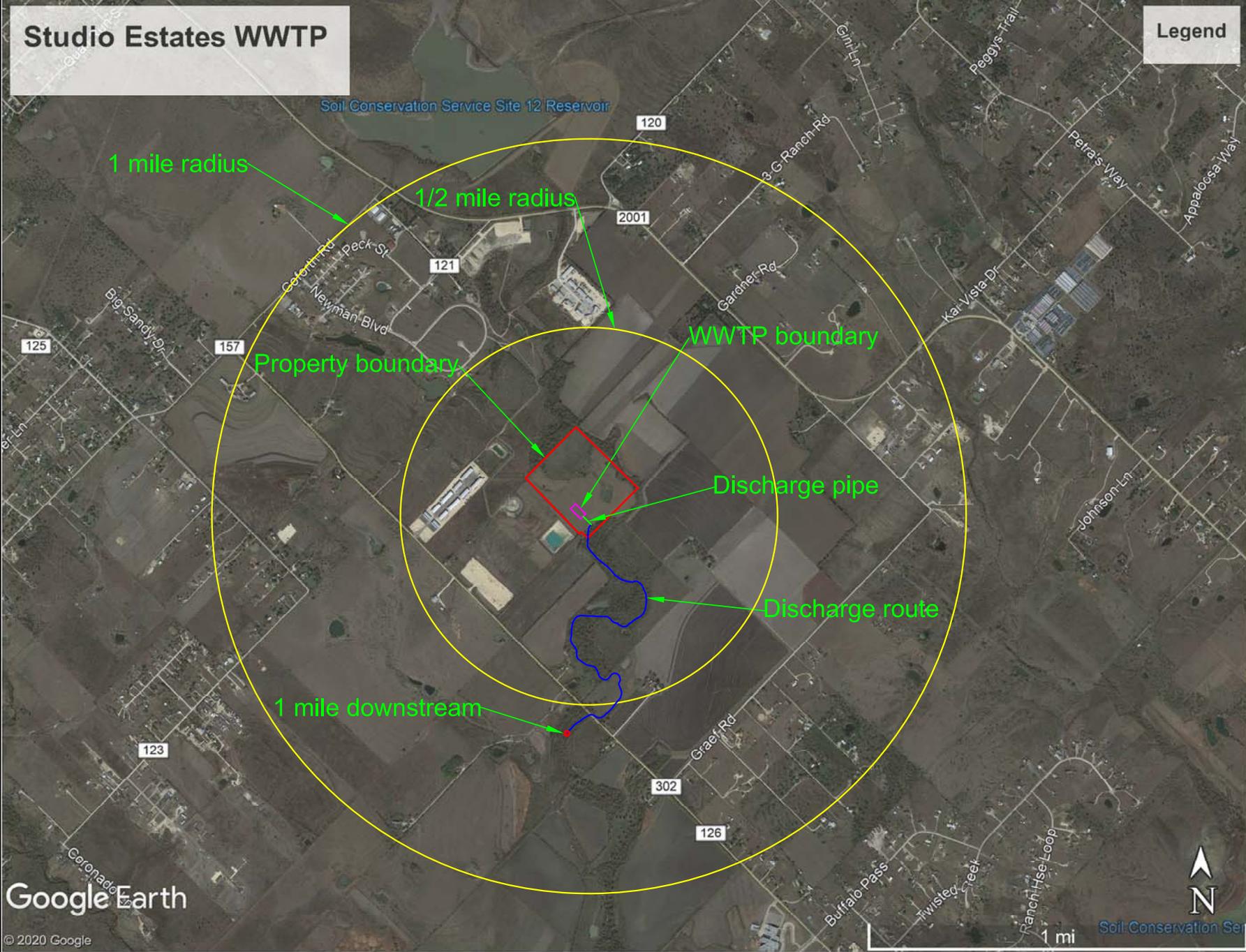
Sheet 011  
00023

# Studio Estates Site Drawing



# Studio Estates WWTP

Legend



Google Earth  
© 2020 Google

Sheet 012

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640  
Site Drawing

consulting **environmental** engineers, inc.  
150 n. harkin drive - suite 408 · stephenville, tx 76401  
(254)968-6130 fax: (254)968-6134 email: ce@ceandeeinc.org  
registered firm: # 2323

Date: September 18, 2020  
Drawn By: TL  
Scale: 1" = 1800'

Copyright © 2020 Consulting Environmental Engineers, Inc

**Studio Estates  
Close Proximity WWTP Data**

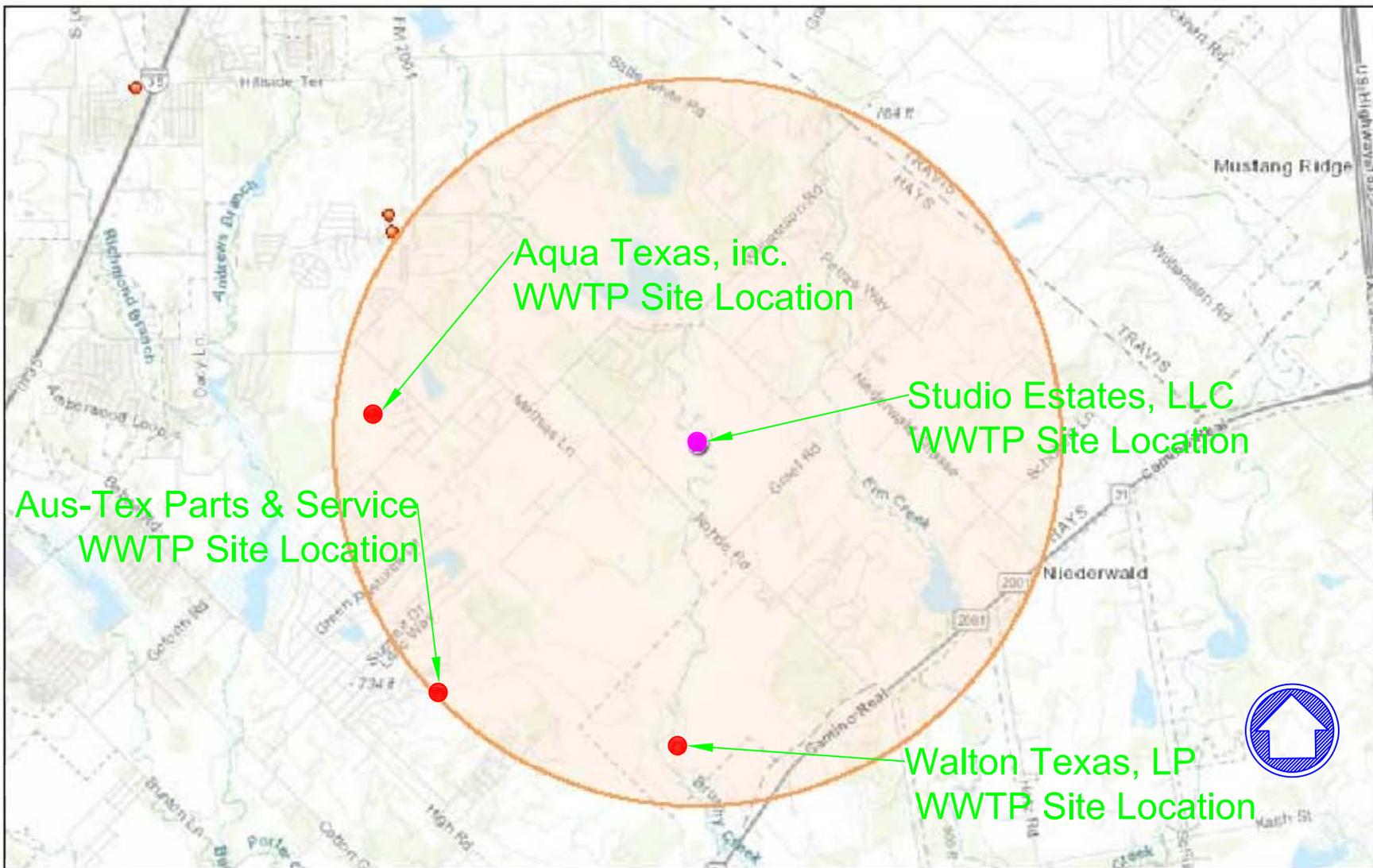




**LIST OF WASTEWATER UTILITIES WITHIN 3 MILES  
OF THE PROPOSED SERVICE AREA BOUNDARY**

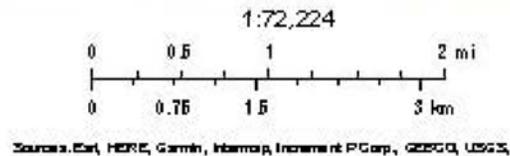
1. Aqua Texas, Inc.
  - a. WWTP name = Goforth WWTP
  - b. Physical address = 5271 Goforth Road, Kyle, TX 78640
  - c. Mailing address = 1106 Clayton Lane Suite 400W, Austin TX 78723
2. Aus-Tex Parts & Service Ltd.
  - a. WWTP name = Railyard WWTP
  - b. Physical address = 2.6 miles NW of the intersection of State Hwy 21 and County Road 127 in Hays County, Texas
  - c. Mailing address = PO Box 17547, Austin, TX 78760
3. Walton Texas, LP.
  - a. WWTP name = Camino Real WWTP
  - b. Physical address = 1.4 miles SW of the intersection of Rohde Rd and State Hwy 21 in Hays County, Texas.
  - c. Mailing Address = 14614 N Kierland Blvd Suite 120, Scottsdale, AZ 85254

# Nearby WWTP Data



7/16/2020, 11:27:46 AM

Wastewater Outfalls



Web AppBuilder for ArcGIS  
City of Austin, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENTAL, USGS, METNUSA, NGA, EPA, USDO, | TOPO |

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640  
Nearby WWTP Data

consulting **environmental** engineers, inc.  
150 n. harbor drive - suite 408 • stephenville, tx 76401  
(254)968-8130 fax: (254)968-8154 email: ceo@ceeechng.org  
registered firm: #2-2525

Date: September 18, 2020  
Drawn By: TL  
Scale: 1"=5000'



**consulting environmental engineers, inc.**

**150 n. harbin drive – suite 408 • stephenville, tx 76401**  
**phone: (254) 968-8130 fax: (254) 968-8134**  
**email: ceeinc@ceeinc.org registered firm: #F-2323**

July 16, 2020

Aqua Texas, Inc.  
1106 Clayton Lane Suite 400W  
Austin, TX 78723

To Whom It May Concern,

Studio Estates, LLC is applying to obtain approval from the Texas Commission on Environmental Quality (TCEQ) to install and operate a Wastewater Treatment System to service a proposed development located in Kyle, TX. The approximate 200-acre property is located at 1075 Rohde Rd, Kyle, Hays County, Texas. The client plans to provide public wastewater service to serve only the proposed development.

Furthermore, based on current information provided by the Texas Commission on Environmental Quality (TCEQ) it appears that Aqua Texas, Inc. has a collection system within the three-mile radius of the proposed wastewater treatment facility. TCEQ requires that a formal request for service be made to any public sewer supply system that is within that radius. Studio Estates, LLC will not be applying for a CCN and will not be selling wastewater service to the public; the proposed wastewater system will be strictly utilized to service the proposed development. I have attached a site map that depicts the proposed location and the proximity to your current location.

We would appreciate your indicating Aqua Texas, Inc. response to this request on the bottom of this letter and returning it via email to [ceeinc@ceeinc.org](mailto:ceeinc@ceeinc.org) or via mail to Consulting Environmental Engineers Inc., 150 N. Harbin Drive, Suite 408, Stephenville, Texas 76401 at your earliest convenience.

Sincerely,

Charles P. Gillespie III  
President

Attachment: Site Location Map

Aqua Texas, Inc.: Please check one (✓)

does wish to provide wastewater service to Studio Estates, LLC and does not consent to Studio Estates, LLC providing wastewater service to only this location.

does not wish to provide service to Studio Estates, LLC and we consent to Studio Estates, LLC providing wastewater service to only this location.

Comments: \_\_\_\_\_

Signed by: \_\_\_\_\_

Signed for: \_\_\_\_\_ Aqua Texas, Inc.

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



## Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. **DO NOT PHOTO COPY OR ALTER LABEL.**
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, **DO NOT TAPE OVER BARCODE**. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collector box.
5. Mail your package on the "Ship Date" you selected when creating this label.

*Studio Estates WUTP  
Request for Service*

## Click-N-Ship® Label Record

Signature Confirmation™ :  
**9410 8036 9930 0124 1607 12**

Trans. #: 500124241  
Print Date: 07/17/2020  
Ship Date: 07/17/2020  
Expected Delivery Date: 07/20/2020

Priority Mail® Postage: \$7.75  
Signature Confirmation: (Electronic Rate) \$2.65  
Total: \$10.40

From: CHARLES P GILLESPIE  
CONSULTING ENVIRONMENTAL ENGINEERS, INC.  
150 N HARBIN DR  
STE 408  
STEPHENVILLE TX 76401-2800

To: AQUA TEXAS, INC.  
1106 CLAYTON LN  
STE 400W  
AUSTIN TX 78723-2476

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!  
Check the status of your shipment on the USPS Tracking® page at [usps.com](http://usps.com)

*Signed for by A TEX*

*Del'd @ 11:58 AM 7-20-20*

USPS® Item Delivered 9410803699300124160712

auto-reply@usps.com <auto-reply@usps.com>

Mon 7/20/2020 5:00 PM

To: Consulting Environmental Engineers, Inc. <ceeinc@ceeinc.org>



Hello **CHARLES P GILLESPIE**,

Your item was delivered at 11:58 am on July 20, 2020 in AUSTIN, TX 78723. The item was signed for A TEX.

Tracking Number:

**9410803699300124160712**

## Delivered

 <Latest Displayable Event Description>

 [Tracking & Delivery Options](#)

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Visit **USPS Tracking**® to check the most up-to-date status of your package. Sign up for **Informed Delivery**® to digitally preview the address side of your incoming letter-sized mail and manage your packages scheduled to arrive soon! To update how frequently you receive emails from USPS, log in to your **USPS.com** account.

Want regular updates on your package? **Set up text alerts.**

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**consulting environmental engineers, inc.**

**150 n. harbin drive – suite 408 • stephenville, tx 76401**  
**phone: (254) 968-8130 fax: (254) 968-8134**  
**email: ceeinc@ceeinc.org registered firm: #F-2323**

July 16, 2020

Aus-Tex Parts & Services, Ltd.  
PO Box 17547  
Austin, TX 78760

To Whom It May Concern,

Studio Estates, LLC is applying to obtain approval from the Texas Commission on Environmental Quality (TCEQ) to install and operate a Wastewater Treatment System to service a proposed development located in Kyle, TX. The approximate 200-acre property is located at 1075 Rohde Rd, Kyle, Hays County, Texas. The client plans to provide public wastewater service to serve only the proposed development.

Furthermore, based on current information provided by the Texas Commission on Environmental Quality (TCEQ) it appears that Aus-Tex Parts & Services, Ltd. has a collection system within the three-mile radius of the proposed wastewater treatment facility. TCEQ requires that a formal request for service be made to any public sewer supply system that is within that radius. Studio Estates, LLC will not be applying for a CCN and will not be selling wastewater service to the public; the proposed wastewater system will be strictly utilized to service the proposed development. I have attached a site map that depicts the proposed location and the proximity to your current location.

We would appreciate your indicating Aus-Tex Parts & Services, Ltd. response to this request on the bottom of this letter and returning it via email to [ceeinc@ceeinc.org](mailto:ceeinc@ceeinc.org) or via mail to Consulting Environmental Engineers Inc., 150 N. Harbin Drive, Suite 408, Stephenville, Texas 76401 at your earliest convenience.

Sincerely,

Charles P. Gillespie III  
President

Attachment: Site Location Map

Aus-Tex Parts & Services, Ltd.: Please check one (✓)

does wish to provide wastewater service to Studio Estates, LLC and does not consent to Studio Estates, LLC providing wastewater service to only this location.

does not wish to provide service to Studio Estates, LLC and we consent to Studio Estates, LLC providing wastewater service to only this location.

Comments: \_\_\_\_\_

Signed by: \_\_\_\_\_

Signed for: Aus-Tex Parts & Services, Ltd.

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



# Instructions

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3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, **DO NOT TAPE OVER BARCODE.** Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

*Studio Estates WUTP  
Request for Service*

 **UNITED STATES POSTAL SERVICE®** Thank you for shipping with the United States Postal Service!  
Check the status of your shipment on the USPS Tracking® page at [usps.com](http://usps.com)

*Delivered 9:53 AM 7-21-20  
Signed for by C ORTIZ*

## Click-N-Ship® Label Record

Signature Confirmation™ :  
**9410 8036 9930 0124 1607 29**

Trans. #:	500124241	Priority Mail® Postage:	\$7.75
Print Date:	07/17/2020	Signature Confirmation:	\$2.65
Ship Date:	07/17/2020	(Electronic Rate)	
Expected Delivery Date:	07/20/2020	Total:	<b>\$10.40</b>

**From:** CHARLES P GILLESPIE  
CONSULTING ENVIRONMENTAL ENGINEERS, INC.  
150 N HARBIN DR  
STE 408  
STEPHENVILLE TX 76401-2800

**To:** AUS-TEX PARTS & SERVICES, LTD.  
PO BOX 17547  
AUSTIN TX 78760-7547

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

USPS® Item Delivered 9410803699300124160729

auto-reply@usps.com <auto-reply@usps.com>

Tue 7/21/2020 10:06 AM

To: Consulting Environmental Engineers, Inc. <ceeinc@ceeinc.org>



Hello **CHARLES P GILLESPIE**,

Your item was delivered at 9:53 am  
on July 21, 2020 in AUSTIN, TX  
78760. The item was signed for C  
ORTIZ.

Tracking Number:

**9410803699300124160729**

## Delivered

 <Latest Displayable Event Description>

 [Tracking & Delivery Options](#)

 [My Account](#)

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Want regular updates on your package? **Set up text alerts.**

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 [Image of Pinterest social icon.](#)

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**consulting environmental engineers, inc.**

**150 n. harbin drive – suite 408 • stephenville, tx 76401**  
**phone: (254) 968-8130 fax: (254) 968-8134**  
**email: ceeinc@ceeinc.org registered firm: #F-2323**

July 16, 2020

Walton Texas, LP  
14614 N Kierland Blvd Suite 120  
Scottsdale, AZ 85254

To Whom It May Concern,

Studio Estates, LLC is applying to obtain approval from the Texas Commission on Environmental Quality (TCEQ) to install and operate a Wastewater Treatment System to service a proposed development located in Kyle, TX. The approximate 200-acre property is located at 1075 Rohde Rd, Kyle, Hays County, Texas. The client plans to provide public wastewater service to serve only the proposed development.

Furthermore, based on current information provided by the Texas Commission on Environmental Quality (TCEQ) it appears that Walton Texas, LP has a collection system within the three-mile radius of the proposed wastewater treatment facility. TCEQ requires that a formal request for service be made to any public sewer supply system that is within that radius. Studio Estates, LLC will not be applying for a CCN and will not be selling wastewater service to the public; the proposed wastewater system will be strictly utilized to service the proposed development. I have attached a site map that depicts the proposed location and the proximity to your current location.

We would appreciate your indicating Walton Texas, LP response to this request on the bottom of this letter and returning it via email to [ceeinc@ceeinc.org](mailto:ceeinc@ceeinc.org) or via mail to Consulting Environmental Engineers Inc., 150 N. Harbin Drive, Suite 408, Stephenville, Texas 76401 at your earliest convenience.

Sincerely,

Charles P. Gillespie III  
President

Attachment: Site Location Map

Walton Texas, LP: Please check one (✓)

does wish to provide wastewater service to Studio Estates, LLC and does not consent to Studio Estates, LLC providing wastewater service to only this location.

does not wish to provide service to Studio Estates, LLC and we consent to Studio Estates, LLC providing wastewater service to only this location.

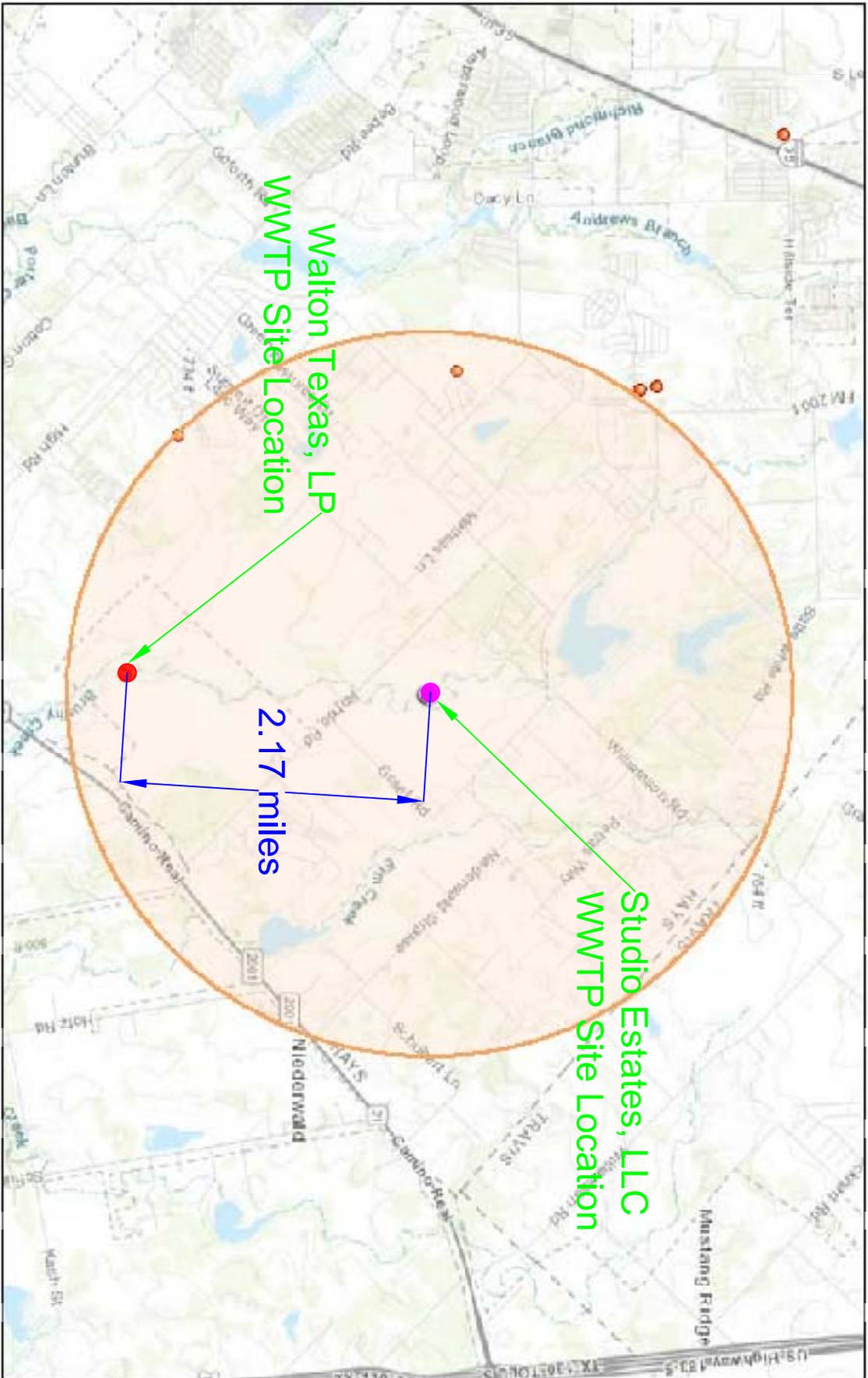
Comments: \_\_\_\_\_

Signed by: \_\_\_\_\_

Signed for: \_\_\_\_\_ Walton Texas, LP

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

# Nearby WWTP Data



7/16/2020, 11:27:48 AM  
 Wastewater Outfalls

Walton Texas, LP  
 WWTP Site Location

2.17 miles

Studio Estates, LLC  
 WWTP Site Location



Source: Esri, DeLorme, Garmin, IBM, Intermap, Inc., GEBCO, USGS

City of Austin, Texas Parks & Wildlife, Carl Herge, Garmin, MicroStation P, USGS, METRUS, NGA, GPO, USDA, ITSD 1  
 Web AppBuilder for ArcGIS

Date  
 July 16, 2020

Drawn By  
 TL

Scale  
 AS SHOWN

consulting environmental engineers, inc.  
 150 n. harbin drive - suite 408 - stephenville, tx 76401  
 (254)968-8130 fax: (254)968-8134 email: ceo@ceeinc.org  
 registered firm: #F-2323

Studio Estates WWTP  
 1075 Rohde Rd  
 Kyle, TX 78640  
 Nearby WWTP Data

Sheet 1

00038

## Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. **DO NOT PHOTO COPY OR ALTER LABEL.**
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, **DO NOT TAPE OVER BARCODE.** Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

*Studio Estates WJTF  
Request for Service*

## Click-N-Ship® Label Record

Signature Confirmation™ :  
**9410 8036 9930 0124 1607 36**

Trans. #:	500124241	Priority Mail® Postage:	\$7.75
Print Date:	07/17/2020	Signature Confirmation:	\$2.65
Ship Date:	07/17/2020	(Electronic Rate)	
Expected Delivery Date:	07/20/2020	Total:	<b>\$10.40</b>

From: CHARLES P GILLESPIE  
CONSULTING ENVIRONMENTAL ENGINEERS, INC.  
150 N HARBIN DR  
STE 408  
STEPHENVILLE TX 76401-2800

To: WALTON TEXAS, LP  
14614 N KIERLAND BLVD  
STE 120  
SCOTTSDALE AZ 85254-2743

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

*Del'd @ 12:23 pm 7-23-20*



Thank you for shipping with the United States Postal Service!  
Check the status of your shipment on the USPS Tracking® page at [usps.com](https://usps.com)

*Signed for by F.MILL*

USPS® Item Delivered 9410803699300124160736

auto-reply@usps.com <auto-reply@usps.com>

Mon 7/20/2020 2:30 PM

To: Consulting Environmental Engineers, Inc. <ceeinc@ceeinc.org>



Hello **CHARLES P GILLESPIE**,

Your item was delivered at 12:23 pm on July 20, 2020 in SCOTTSDALE, AZ 85254. The item was signed for F MIKL.

Tracking Number:  
**9410803699300124160736**

## Delivered

 <Latest Displayable Event Description>

 [Tracking & Delivery Options](#)

 [My Account](#)

Visit **USPS Tracking**® to check the most up-to-date status of your package. Sign up for **Informed Delivery**® to digitally preview the address side of your incoming letter-sized mail and manage your packages scheduled to arrive soon! To update how frequently you receive emails from USPS, log in to your **USPS.com** account.

Want regular updates on your package? **Set up text alerts.**

 [Image of Facebook social media icon](#)

 [Image of Pinterest social icon.](#)

 [Image of Youtube social media icon.](#)

 [Image of Twitter social media con.](#)

# Studio Estates Design Calculations



## Studio Estates WWTP - Extended Aeration Design Spreadsheet (Phase I)

### INPUT

---

$$ADF \text{ (average daily flow)} = 75,000 \text{ gallons/day}$$

$$BOD \text{ (biochemical oxygen demand)} = 364 \text{ mg/l}$$

### OUTPUT

---

#### I Daily Average Organic Load

$$\frac{ADF \times 8.33 \text{ gallon}}{\text{gallon}} \times \frac{BOD}{1,000,000 \text{ lbs.}} = 227 \text{ lbs/day}$$

#### II Peak Flow Organic Load

$$4 \times ADF \times 8.33 \frac{\text{lbs}}{\text{gallon}} \times \frac{BOD}{1,000,000 \text{ lbs.}} = 910 \text{ lbs/day}$$

#### III Minimum Clarifier Detention Diameter

$$\frac{(4)(ADF)(2.2 \text{ detention time})}{\sqrt{(24\text{hrs})(7.48 \text{ gal})(11 \text{ ft})(.785)}} = 20.63 \text{ ft. dia.}$$

#### IV Peak Flow Clarifier Design Diameter

$$\frac{(4)(ADF)}{\sqrt{(.785)(900)}} = 20.61 \text{ ft Diameter}$$

**V Digester Volume**

$$\frac{20 \text{ ft}^3}{\text{lb/day}} \times \text{daily average organic load (above Item I)} = 4,548 \text{ ft}^3$$

**Digester Length**  
**42.56 ft**

**VI Chlorine Tank Volume**

(Minimum=3')

$$\frac{4 \times \text{ADF}}{(7.48 \text{ gallons})(1440 \text{ minutes})} \times 20 \text{ minutes} = 557 \text{ ft}^3$$

**Chlorine Chamber Length**  
**7.99427 ft**

**VII Aeration Basin Sizing**

$$\text{daily average organic load (above Item I)} \times \frac{\text{day}}{15 \text{ lbs}} \times 1,000 \text{ ft}^3 = 15,161 \text{ ft}^3$$

**Basin Length**  
**141.85357 ft**

**VIII Air Supply For Aeration**

$$\text{daily average organic load (above Item I)} \times \frac{2.22 \text{ ft}^3}{\text{lb BOD min}} = 505 \text{ ft}^3 / \text{min}$$

**IX Air Supply For Digestion**

$$\text{digester volume (above Item VII)} \times \frac{30 \text{ ft}^3 / \text{min}}{1,000 \text{ ft}^3} = 91 \text{ ft}^3 / \text{min}$$

**X Total Air Required**

air supply for aeration (above item VIII)  
+ air supply for digestion (above item IX)  
+ 40 ft<sup>3</sup>/min (air lifts)

**636 ft<sup>3</sup>/min**

## Studio Estates WWTP - Extended Aeration Design Spreadsheet (Phase II)

### INPUT

---

$$ADF \text{ (average daily flow)} = 75,000 \text{ gallons/day}$$

$$BOD \text{ (biochemical oxygen demand)} = 364 \text{ mg/l}$$

### OUTPUT

---

#### I Daily Average Organic Load

$$\frac{ADF \times 8.33 \text{ gallon}}{\text{lb}} \times \frac{BOD}{1,000,000 \text{ lbs.}} = 227 \text{ lbs/day}$$

#### II Peak Flow Organic Load

$$4 \times ADF \times 8.33 \frac{\text{lb}}{\text{gallon}} \times \frac{BOD}{1,000,000 \text{ lbs.}} = 910 \text{ lbs/day}$$

#### III Minimum Clarifier Detention Diameter

$$\frac{(4)(ADF)(2.2 \text{ detention time})}{\sqrt{(24\text{hrs})(7.48 \text{ gal})(11 \text{ ft})(.785)}} = 20.63 \text{ ft. dia.}$$

#### IV Peak Flow Clarifier Design Diameter

$$\frac{(4)(ADF)}{\sqrt{(.785)(900)}} = 20.61 \text{ ft Diameter}$$

**V Digester Volume**

$$\frac{20 \text{ ft}^3}{\text{lb/day}} \times \text{daily average organic load (above Item I)} = 4,548 \text{ ft}^3$$

**Digester Length**  
**42.56 ft**

**VI Chlorine Tank Volume**

(Minimum=3')

$$\frac{4 \times \text{ADF}}{(7.48 \text{ gallons})(1440 \text{ minutes})} \times 20 \text{ minutes} = 557 \text{ ft}^3$$

**Chlorine Chamber Length**  
**7.99427 ft**

**VII Aeration Basin Sizing**

$$\text{daily average organic load (above Item I)} \times \frac{\text{day}}{15 \text{ lbs}} \times 1,000 \text{ ft}^3 = 15,161 \text{ ft}^3$$

**Basin Length**  
**141.85357 ft**

**VIII Air Supply For Aeration**

$$\text{daily average organic load (above Item I)} \times \frac{2.22 \text{ ft}^3/\text{min}}{\text{lb BOD}} = 505 \text{ ft}^3/\text{min}$$

**IX Air Supply For Digestion**

$$\text{digester volume (above Item VII)} \times \frac{30 \text{ ft}^3/\text{min}}{1,000 \text{ ft}^3} = 91 \text{ ft}^3/\text{min}$$

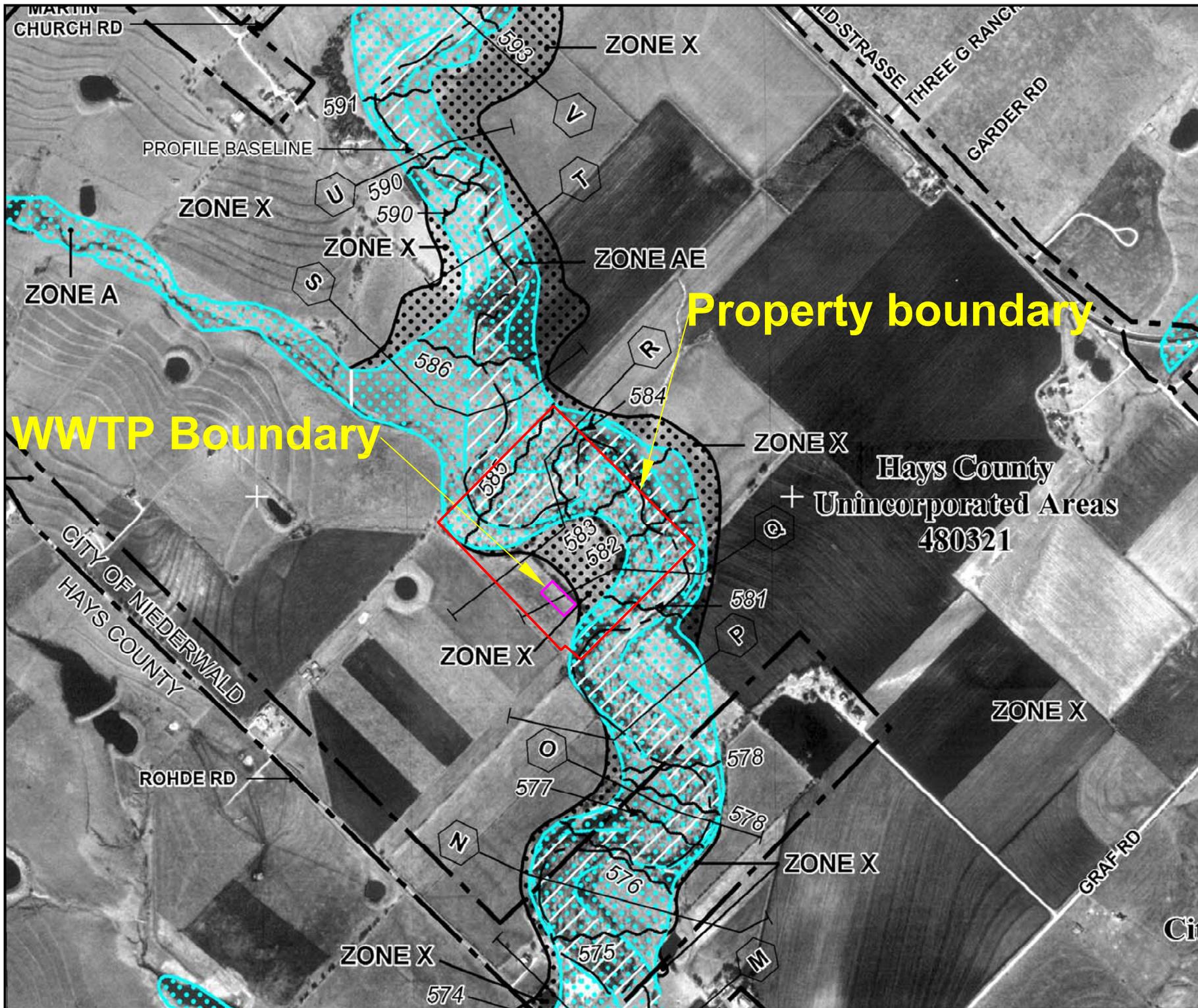
**X Total Air Required**

air supply for aeration (above item VIII)  
+ air supply for digestion (above item IX)  
+ 40 ft<sup>3</sup>/min (air lifts)

**636 ft<sup>3</sup>/min**

# Studio Estates Flood Plain Map





MARTIN CHURCH RD

ZONE X

PROFILE BASELINE

ZONE X

ZONE X

ZONE AE

ZONE A

Property boundary

WWTP Boundary

Hays County  
Unincorporated Areas  
480321

CITY OF NIEDERWALD  
HAYS COUNTY

ZONE X

ZONE X

ZONE X

ZONE X

ZONE X

ROHDE RD

577

578

578

GRAF RD

576

575

574

Sheet 014

Studio Estates WWTP  
721 Rohde Road  
Kyle, TX 78640  
Flood Plain Map

consulting **environmental** engineers, inc.  
150 n. harbin drive - suite 408 · stephenville, tx 76401  
(254)968-6130 fax: (254)968-6134 email: ceoinc@ceinc.org  
registered firm: #2323

Date  
September 18, 2020  
Drawn By  
TL  
Scale  
1"=750'

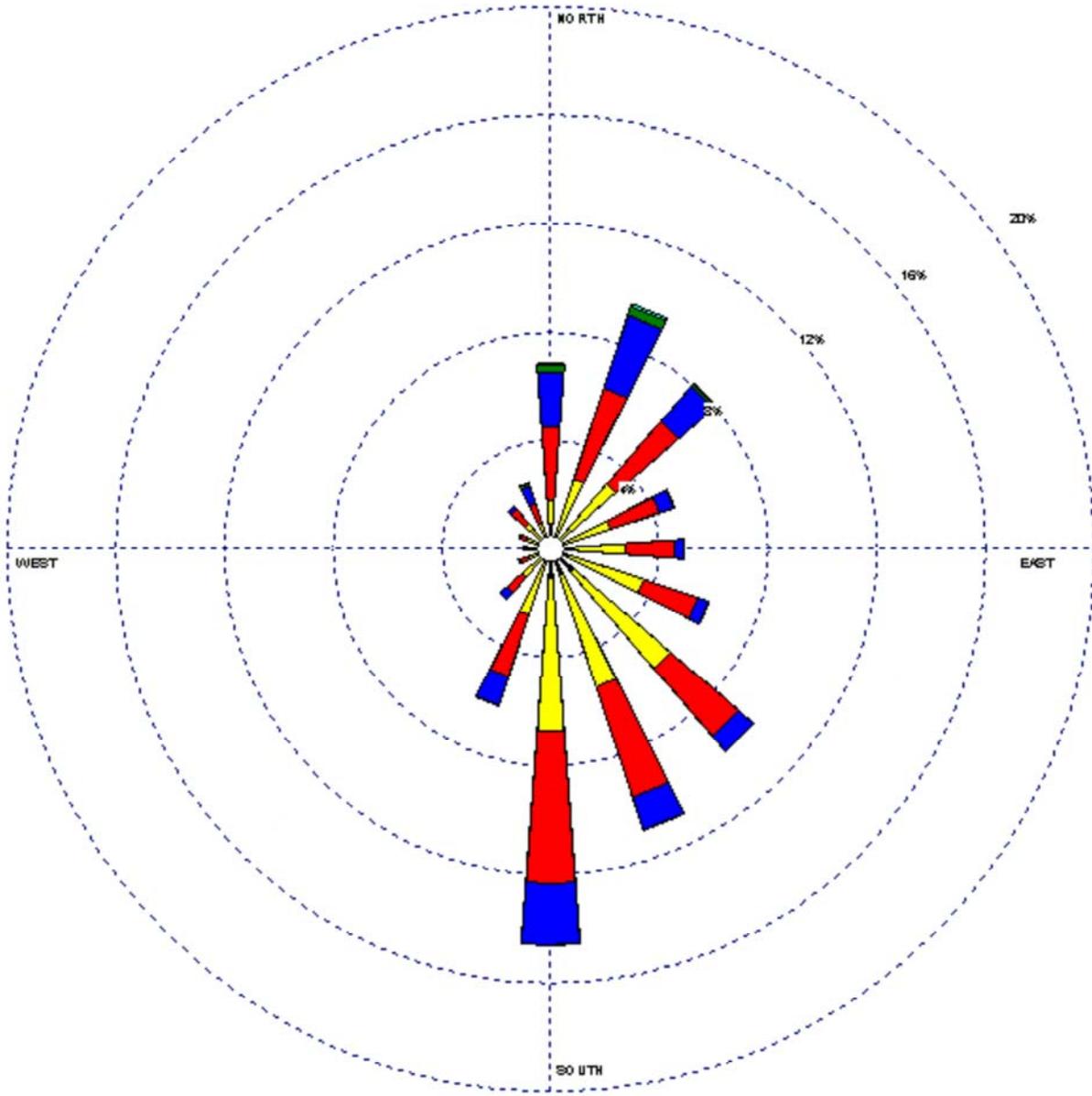
Copyright © 2020 Consulting Environmental Engineers, Inc.

**Studio Estates  
Wind Rose**



WIND ROSE PLOT

Station #13958 - AUSTIN/MUNICIPAL ARPT, TX



<p>Wind Speed (m/s)</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: cyan; border: 1px solid black; margin-right: 5px;"></span> &gt; 11.05</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></span> 8.49 - 11.05</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> 5.40 - 8.49</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> 3.34 - 5.40</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> 1.80 - 3.34</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></span> 0.51 - 1.80</li> </ul>	<p>MODELER Sara West</p>	<p>DATE 8/29/2002</p>	<p>COMPANY NAME USDA-ARS</p>	
	<p>DISPLAY Wind Speed</p>	<p>UNIT m/s</p>	<p>COMMENTS</p>	
	<p>AVG. WIND SPEED 3.83 m/s</p>	<p>CALM WINDS 7.55%</p>		
	<p>ORIENTATION Direction (blowing from)</p>	<p>PLOT YEAR-DATETIME 1961 Sep 1 - Sep 30 Midnight - 11 PM</p>		

Date September 18, 2020
Drawn By TL
Scale NTS

consulting **environmental** engineers, inc.  
 150 n. harbin drive - suite 408 . stephenville, tx 76401  
 (254)968-8130 fax: (254)968-8134 email: ceo@ceinc.org  
 registered firm: #F-2323

Studio Estates WWTP  
 721 Rohde Road  
 Kyle, TX 78640  
 Wind Rose

Sheet 015  
 00049

**Studio Estates  
Sewage Sludge Solids Management**





**consulting environmental engineers, inc.**

**150 n. harbin drive – suite 408 • stephenville, tx 76401**  
**phone: (254) 968-8130 fax: (254) 968-8134**  
**email: [ceeinc@ceeinc.org](mailto:ceeinc@ceeinc.org) registered firm: #F-2323**

## Sludge Management Calculation Sheet (Phase I)

Permittee	1	<u>Studio Estates WWTP</u>
Influent BOD	2	<u>364</u> mg/l
Effluent BOD	3	<u>20</u> mg/l
Average Daily Flow	4	<u>75000</u> gallon/day
Influent TSS	5	<u>20</u> mg/l
Average Daily Organic Load	6	227.00 lbs/day
Required Digester Volume	7	4540 cubic feet
BOD Removal	8	215.17 lbs/day

Solids Generated		100%	75%	50%	25%
BOD Removed	9	215.17	161.38	107.59	53.79
Non-Volatile TSS	10	12.50	9.37	6.25	3.12
Solids Produced (lbs)	11	107.59	80.69	53.79	26.90
Total Wet Sludge	12	3002.03	2251.52	1501.01	750.51
Volume of Wet Sludge (cubic ft)	13	48.18	36.14	24.09	12.05
Sludge Storage Available	14	94.2	125.6	188.5	376.9

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 facility headworks for treatment.

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. The calculated mean cell residence time for the digester storage volume of 20,000 gallons will be approximately 20 days at 100% capacity. Generated waste will be hauled by an approved transporter to a permitted site.



**consulting environmental engineers, inc.**

**150 n. harbin drive – suite 408 • stephenville, tx 76401**  
**phone: (254) 968-8130 fax: (254) 968-8134**  
**email: [ceeinc@ceeinc.org](mailto:ceeinc@ceeinc.org) registered firm: #F-2323**

## Sludge Management Calculation Sheet (Phase II)

Permittee	1	<u>Studio Estates WWTP</u>
Influent BOD	2	<u>364</u> mg/l
Effluent BOD	3	<u>20</u> mg/l
Average Daily Flow	4	<u>75000</u> gallon/day
Influent TSS	5	<u>20</u> mg/l
Average Daily Organic Load	6	227.00 lbs/day
Required Digester Volume	7	4540 cubic feet
BOD Removal	8	215.17 lbs/day

Solids Generated		100%	75%	50%	25%
BOD Removed	9	215.17	161.38	107.59	53.79
Non-Volatile TSS	10	12.50	9.37	6.25	3.12
Solids Produced (lbs)	11	107.59	80.69	53.79	26.90
Total Wet Sludge	12	3002.03	2251.52	1501.01	750.51
Volume of Wet Sludge (cubic ft)	13	48.18	36.14	24.09	12.05
Sludge Storage Available	14	94.2	125.6	188.5	376.9

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 facility headworks for treatment.

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. The calculated mean cell residence time for the digester storage volume of 20,000 gallons will be approximately 20 days at 100% capacity. Generated waste will be hauled by an approved transporter to a permitted site.

**Studio Estates  
Copy of Check**







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



Complete and submit this checklist with the application.

APPLICANT: Studio Estates, LLC

PERMIT NUMBER: [REDACTED]

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

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

**For TCEQ Use Only**

Segment Number \_\_\_\_\_ County \_\_\_\_\_  
 Expiration Date \_\_\_\_\_ Region \_\_\_\_\_  
 Permit Number \_\_\_\_\_



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT  
ADMINISTRATIVE REPORT 1.0

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

**Section 1. Application Fees (Instructions Page 29)**

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

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

Minor Amendment (for any flow) \$150.00

**Payment Information:**

Mailed  Check/Money Order Number: \_\_\_\_\_  
Check/Money Order Amount: \$850.00  
Name Printed on Check: Studio Estates, LLC

EPAY  Voucher Number: \_\_\_\_\_

Copy of Payment Voucher enclosed? Yes

**Section 2. Type of Application (Instructions Page 29)**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> New TPDES                   | <input type="checkbox"/> New TLAP                               |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal    | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal    |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Renewal without changes                | <input type="checkbox"/> Minor Modification of permit           |

For amendments or modifications, describe the proposed changes: \_\_\_\_\_

**For existing permits:**

Permit Number: WQ00 \_\_\_\_\_

EPA I.D. (TPDES only): TX \_\_\_\_\_

Expiration Date: [REDACTED]

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

Studio Estates, 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: 602978512

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: David Cuddy

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

Title: President

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

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

N/A

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

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at:

<http://www15.tceq.texas.gov/crpub/>

CN: [REDACTED]

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

Prefix (Mr., Ms., Miss): [REDACTED]

First and Last Name: [REDACTED]

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

Title: [REDACTED]

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

**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

**Section 4. Application Contact Information (Instructions Page 30)**

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

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

First and Last Name: David Cuddy

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

Title: President

Organization Name: Studio Estates, LLC

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-590-4513 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: david@studioestates.biz

Check one or both:  Administrative Contact  Technical Contact

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

First and Last Name: Charles Gillespie

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

Title: President

Organization Name: Consulting Environmental Engineers, Inc

Mailing Address: 150 N. Harbin Dr. Ste. 408

City, State, Zip Code: Stephenville, TX 76401

Phone No.: 254-968-8130 Ext.: [REDACTED] Fax No.: 254-968-8134

E-mail Address: ceeinc@ceeinc.org

Check one or both:  Administrative Contact  Technical Contact

**Section 5. Permit Contact Information (Instructions Page 30)**

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

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

First and Last Name: David Cuddy

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

Title: President

Organization Name: Studio Estates, LLC

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-590-4513 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: david@studioestates.biz

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

First and Last Name: Raschell Spillers

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

Title: General Manager

Organization Name: Studio Estates, LLC

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-909-7888 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: raschellspillers@yahoo.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: David Cuddy

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

Title: President

Organization Name: Studio Estates, LLC

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-590-4513 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: david@studioestates.biz

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

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

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

First and Last Name: Raschell Spillers

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

Title: General Manager

Organization Name: Studio Estates, LLC

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-909-7888 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: raschellspillers@yahoo.com

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

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

## Section 8. Public Notice Information (Instructions Page 31)

### A. Individual Publishing the Notices

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

First and Last Name: Charles Gillespie

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

Title: President

Organization Name: Consulting Environmental Engineers, Inc.

Mailing Address: 150 N. Harbin Dr. Ste 408

City, State, Zip Code: Stephenville, TX 76401

Phone No.: 254-968-8130 Ext.: [REDACTED]

Fax No.: 254-968-8134

E-mail Address: ceeinc@ceeinc.org

### 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      ceeinc@ceeinc.org

Fax

Regular Mail

### C. Contact person to be listed in the Notices

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

First and Last Name: David Cuddy

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

Title: President

Organization Name: Studio Estates, LLC

Phone No.: 512-590-4513 Ext.: [REDACTED]

E-mail: david@studioestates.biz

**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: San Marcus Public Library

Location within the building: Front Desk

Physical Address of Building: 625 E Hopkins St

City: San Marcos County: Hays

Contact Name: Adam Landry

Phone No.:(512)-393-8200 Ext.: [REDACTED]

**E. Bilingual Notice Requirements:**

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

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

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

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

Yes       No

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

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

Yes       No

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

Yes       No

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

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

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

Search the TCEQ’s Central Registry at <http://www15.tceq.texas.gov/crpub/> to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Studio Estates WWTP

C. Owner of treatment facility: Studio Estates, LLC

Ownership of Facility:  Public       Private       Both       Federal

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

Prefix (Mr., Ms., Miss):

First and Last Name: Studio Estates, LLC

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-590-4513

E-mail Address: david@studioestates.biz

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

**Attachment:**

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss):

First and Last Name: N/A

Mailing Address:

City, State, Zip Code:

Phone No.:

E-mail Address:

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

**Attachment:**

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

Prefix (Mr., Ms., Miss): [REDACTED]

First and Last Name: N/A

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

### 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:

New Permit - 1075 Rohde Road Kyle, TX 78640

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:

New Permit- The effluent will flow to Brushy Creek, thence to Plum Creek Classified Segment #1810.

City nearest the outfall(s): Kyle

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

Outfall Latitude: 30.020634

Longitude: -97.770046

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: [REDACTED]

- 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:

[REDACTED]

B. City nearest the disposal site: [REDACTED]

C. County in which the disposal site is located: [REDACTED]

D. Disposal Site Latitude: [REDACTED]      Longitude: [REDACTED]

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

[REDACTED]

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

[REDACTED]

### 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.

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

- Yes       No

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

D. Do you owe any fees to the TCEQ?

- Yes       No

If yes, provide the following information:

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

- Yes       No

If yes, please provide the following information:

Enforcement order number:

Amount past due:

### 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: [click here to enter text](#)

**Section 14. Signature Page (Instructions Page 39)**

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

Permit Number: New Permit

Applicant: Studio Estates, LLC

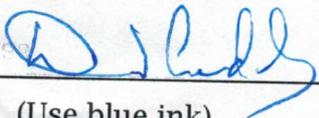
Certification:

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): David Cuddy

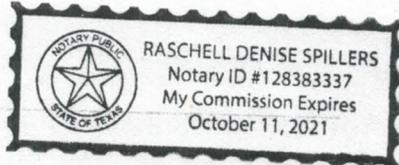
Signatory title: President

Signature:  Date: 11.10.20  
(Use blue ink)

Subscribed and Sworn to before me by the said David Cuddy  
on this 10 day of November, 2020.  
My commission expires on the 11 day of Oct, 2021.

Raschell Spillers  
Notary Public

[SEAL]



Hays  
County, Texas

## DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

### Section 1. Affected Landowner Information (Instructions Page 41)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- The applicant's property boundaries
  - The facility site boundaries within the applicant's property boundaries
  - The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
  - The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
  - The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
  - The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
  - The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
  - The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
  - The property boundaries of all landowners surrounding the effluent disposal site
  - The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
  - The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B.  Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- Readable/Writeable CD
  - Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: Hays CAD
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- Yes
  - No

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

## Section 2. Original Photographs (Instructions Page 44)

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

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

## Section 3. Buffer Zone Map (Instructions Page 44)

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

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

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

- Ownership
- Restrictive easement
- Nuisance odor control
- Variance

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

- Yes       No

**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: Studio Estates, LLC

Permit No. WQ00 \_\_\_\_

EPA ID No. TX

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

1075 Rohde Road Kyle, TX 78640

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: David Cuddy

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

Title: Owner

Mailing Address: 7212 Goforth Road Suite 201

City, State, Zip Code: Kyle, TX 78640

Phone No.: 512-590-4513 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: david@studioestates.biz

2. List the county in which the facility is located: Hays
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.

The effluent will flow to Brushy Creek, thence to Plum Creek Classified Segment #: 1810.

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):

100-300 acres of construction will be done to develop a multitude of office buildings, warehouses, restaurants, and grocery/retail stores.

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

Currently undeveloped.

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:

N/A

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

N/A

# WATER QUALITY PERMIT

## PAYMENT SUBMITTAL FORM

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

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

**Mail this form and the check or money order to:**

*BY REGULAR U.S. MAIL*

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

*BY OVERNIGHT/EXPRESS MAIL*

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, Texas 78753

Fee Code: **WQP**      Waste Permit No:

1. Check or Money Order Number:
2. Check or Money Order Amount: \$850.00
3. Date of Check or Money Order:
4. Name on Check or Money Order: Studio Estates, LLC
5. APPLICATION INFORMATION

Name of Project or Site: Studio Estates WWTP

Physical Address of Project or Site: 1075 Rohde Road Kyle, TX 78640

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

**Staple Check or Money Order in This Space**

THIS PAGE INTENTIONALLY LEFT BLANK

ATTACHMENT 1

INDIVIDUAL INFORMATION

**Section 1. Individual Information (Instructions Page 50)**

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., Miss):

Full legal name (first, middle, last):

Driver's License or State Identification Number:

Date of Birth:

Mailing Address:

City, State, and Zip Code:

Phone Number:  Fax Number:

E-mail Address:

CN:

**For Commission Use Only:**

Customer Number:

Regulated Entity Number:

Permit Number:



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
DOMESTIC WASTEWATER PERMIT APPLICATION

**DOMESTIC TECHNICAL REPORT 1.0**

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

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

**A. Existing/Interim I Phase**

Design Flow (MGD): 0.075

2-Hr Peak Flow (MGD): 0.3

Estimated construction start date: 09/21/2021

Estimated waste disposal start date: 12/21/2021

**B. Interim II Phase**

Design Flow (MGD): [REDACTED]

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

Estimated construction start date: [REDACTED]

Estimated waste disposal start date: [REDACTED]

**C. Final Phase**

Design Flow (MGD): 0.15

2-Hr Peak Flow (MGD): 0.6

Estimated construction start date: 09/21/2022

Estimated waste disposal start date: 12/21/2022

**D. Current operating phase:** [REDACTED]

Provide the startup date of the facility: 12/21/2021

**Section 2. Treatment Process (Instructions Page 51)**

**A. Treatment process description**

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

Studio Estates WWTP – New Permit

**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:

Effluent will flow from source, to a prepackaged activated sludge plant using continuous aeration treatment. Sewage passes through a bar screen to an aeration chamber and then to a clarifier. Sludge is transferred to a holding chamber and supernatant is moved through a chlorine contact chamber to discharge.

Port or pipe diameter at the discharge point, in inches: 4

**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)
Aeration Basin	2	142' x 11.25' x 9.5'
Digester	2	43' x 11.25' x 9.5'
Clarifier (Round)	2	21' diameter
Chlorine Chamber	2	8' x 11.25' x 9.5'

**C. Process flow diagrams**

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

**Attachment: IX**

### 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: X

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

Studio Estates WWTP - will serve a multitude of proposed office buildings, restaurants, warehouses, and grocery/retail stores.

### Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes

No

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

Yes

No

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

**Section 5. Closure Plans (Instructions Page 53)**

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

Yes  No

If yes, was a closure plan submitted to the TCEQ?

Yes  No

If yes, provide a brief description of the closure and the date of plan approval.

[Redacted text box]

**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  (New Permit)

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

[Redacted]

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.

[Redacted text box]

**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.

N/A

**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  (New Permit)

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

**D. Grit and grease treatment**

***1. Acceptance of grit and grease waste***

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

Yes  No

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

***2. Grit and grease processing***

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

### ***3. Grit disposal***

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

Yes  No

**If No**, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

### ***4. Grease and decanted liquid disposal***

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.

Describe how the decant and grease are treated and disposed of after grit separation.

## **E. Stormwater management**

### ***1. Applicability***

Does the facility have a design flow of 1.0 MGD or greater in any phase?

Yes  No

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

Yes  No

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

## 2. MSGP coverage

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

Yes  No

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

TXR05 [REDACTED] or TXRNE [REDACTED]

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

Yes  No

## 3. Conditional exclusion

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

Yes  No

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

## 4. Existing coverage in individual permit

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

Yes  No

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

**5. Zero stormwater discharge**

Do you intend to have no discharge of stormwater via use of evaporation or other means?

Yes  No

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

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

**6. Request for coverage in individual permit**

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

Yes  No

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

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

**F. Discharges to the Lake Houston Watershed**

Does the facility discharge in the Lake Houston watershed?

Yes  No

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

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

***1. Acceptance of sludge from other WWTPs***

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

Yes  No

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

In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Note: Permits that accept sludge from other wastewater treatment plants

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

## 2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

Yes  No

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

Yes  No

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

Yes  No

If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the septic waste, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

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

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

Yes  No

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

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

Is the facility in operation?

Yes  No  (New Proposed System)

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

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, mg/l					

\*TPDES permits only

†TLAP permits only

**Table 1.0(3) – Pollutant Analysis for Water Treatment Facilities**

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

### Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Licensed operator will be determined upon permit approval.

Facility Operator's License Classification and Level:

Facility Operator's License Number:

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

#### A. Sludge disposal method

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

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

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

**B. Sludge disposal site**

Disposal site name: To be determined.

TCEQ permit or registration number:

County where disposal site is located:

**C. Sludge transportation method**

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

Name of the hauler: TCEQ approved hauler to be determined.

Hauler registration number:

Sludge is transported as a:

Liquid       semi-liquid       semi-solid       solid

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

**A. Beneficial use authorization**

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

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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:**

- USDA Natural Resources Conservation Service Soil Map:

**Attachment:**

- Federal Emergency Management Map:

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**Attachment:** [click here to enter text](#)

- Site map:

**Attachment:** [click here to enter text](#)

Discuss in a description if any of the following exist within the lagoon area.

Check all that apply.

- Overlap a designated 100-year frequency flood plain
- Soils with flooding classification
- Overlap an unstable area
- Wetlands
- Located less than 60 meters from a fault
- None of the above

**Attachment:** [click here to enter text](#)

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

### B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in Section 7 of Technical Report 1.0.

Nitrate Nitrogen, mg/kg: [click here to enter text](#)

Total Kjeldahl Nitrogen, mg/kg: [click here to enter text](#)

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: [click here to enter text](#)

Phosphorus, mg/kg: [click here to enter text](#)

Potassium, mg/kg: [click here to enter text](#)

pH, standard units: [click here to enter text](#)

Ammonia Nitrogen mg/kg: [click here to enter text](#)

Arsenic: [click here to enter text](#)

Cadmium: [click here to enter text](#)

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

### C. Liner information

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

Yes  No

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

### D. Site development plan

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

Attach the following documents to the application.

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

**E. Groundwater monitoring**

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

Yes  No

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

Attachment: [REDACTED]

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

**A. Additional authorizations**

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

Yes  No

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

**B. Permittee enforcement status**

Is the permittee currently under enforcement for this facility?

Yes  No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

Yes  No

If **yes** to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

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

**A. RCRA hazardous wastes**

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

Yes  No

**B. Remediation activity wastewater**

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

Yes  No

**C. Details about wastes received**

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

Attachment:

## Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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

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

### CERTIFICATION:

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

Printed Name: David Cuddy

Title: Owner/President

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

Date: 8.19.20

# DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

## Section 1. Justification for Permit (Instructions Page 66)

### A. Justification of permit need

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

The proposed WWTP will be used to serve a multitude of proposed office buildings, restaurants, warehouses, and grocery/retail stores.

### B. Regionalization of facilities

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

#### 1. Municipally incorporated areas

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

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

Yes  No  Not Applicable

If yes, within the city limits of: [REDACTED]

If yes, attach correspondence from the city.

Attachment: [REDACTED]

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

Attachment: [REDACTED]

#### 2. Utility CCN areas

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

Yes  No

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

Attachment:

### 3. *Nearby WWTPs or collection systems*

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

Yes  No

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

Attachment: XI

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

Attachment: XI

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

Yes  No

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

Attachment:

## Section 2. Organic Loading (Instructions Page 67)

Is this facility in operation?

Yes  No

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

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

**A. Current organic loading**

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

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: [REDACTED]

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): [REDACTED]

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

**B. Proposed organic loading**

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

*Table 1.1(1) - Design Organic Loading*

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Municipality		
Subdivision		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Recreational park, overnight use		
Recreational park, day use		
Office building or factory	0.01315	300
Motel	0.01125	300
Restaurant	0.01	1000
Hospital		
Nursing home	0.0072	300
Other	0.069375	300
TOTAL FLOW from all sources	0.075	
AVERAGE BOD <sub>5</sub> from all sources		364

### 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: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 2

Other:

**B. Interim II Phase Design Effluent Quality**

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

Total Suspended Solids, mg/l:

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l:

Other:

**C. Final Phase Design Effluent Quality**

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: 2

Other:

**D. Disinfection Method**

Identify the proposed method of disinfection.

- Chlorine: 1 mg/l after 20 minutes detention time at peak flow  
Dechlorination process:
- Ultraviolet Light:  seconds contact time at peak flow
- Other:

**Section 4. Design Calculations (Instructions Page 68)**

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

Attachment:

## Section 5. Facility Site (Instructions Page 68)

### A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

Yes  No

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

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

FEMA Map No. 48209C0295F

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: [REDACTED]

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [REDACTED]

### B. Wind rose

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

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

### A. Beneficial use authorization

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

Yes  No

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

Attachment: [REDACTED]

### B. Sludge processing authorization

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

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

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

Attachment: [REDACTED]

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

Attach a solids management plan to the application.

Attachment: XV

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

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

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

# DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

## RECEIVING WATERS

The following is required for all TPDES permit applications

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

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

Yes  No

If yes, provide the following:

Owner of the drinking water supply:

Distance and direction to the intake:

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

Attachment:

### Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes  No

If yes, complete the remainder of this section. If no, proceed to Section 3.

#### A. Receiving water outfall

Width of the receiving water at the outfall, in feet:

#### B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes  No

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

**C. Sea grasses**

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

Yes  No

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

**Section 3. Classified Segments (Instructions Page 73)**

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

Yes  No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Unnamed tributary

**A. Receiving water type**

Identify the appropriate description of the receiving waters.

- Stream
- Freshwater Swamp or Marsh
- Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

- Man-made Channel or Ditch

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

**B. Flow characteristics**

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

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

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

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

**C. Downstream perennial confluences**

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

Unnamed tributary thence to Brushy Creek.

**D. Downstream characteristics**

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

- Yes  No

If yes, discuss how.

**E. Normal dry weather characteristics**

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

The creek is intermittent with shallow perennial pools.

Date and time of observation: 09/16/2020

Was the water body influenced by stormwater runoff during observations?

Yes  No

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

**A. Upstream influences**

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

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

**B. Waterbody uses**

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

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

- Domestic water supply
- Industrial water supply
- Park activities
- Other(s), specify None observed.

### 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