



PLUMMER

1107-001-01

March 4, 2020

Texas Commission on Environmental Quality
Applications Review and Processing Team
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

Re: City of Laredo (CN600131908)
Columbia Bridge Wastewater Treatment Facility (RN101607984)
Application for Renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No.
WQ0010681006

To Whom It May Concern:

On behalf of the City of Laredo, Plummer submits one original and three copies of a renewal application for the above-referenced permit. The application fee of \$315.00 for the Domestic Wastewater Permit Application and has been submitted to the Texas Commission on Environmental Quality Cashier's Office (MC-214) under a separate cover.

Please feel free to contact me at tkoenings@plummer.com, (512) 687-2148, if you have any questions regarding this submittal.

Sincerely,

PLUMMER
TBPE Firm Registration No. F-13

Tres Koenings
Senior Project Manager

Enclosures: Permit Renewal Application (1 original, 3 copies)

cc: Jose Chavarria, City of Laredo
Carl Scruggs, City of Laredo

RECEIVED
MAR 04 2020
Water Quality Applications Team
LK Thom

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: WQ0010681006

1. Check or Money Order Number: 109181
2. Check or Money Order Amount: \$315.00
3. Date of Check or Money Order: February 5, 2020
4. Name on Check or Money Order: Plummer
5. APPLICATION INFORMATION




Name of Project or Site: Columbia Bridge Wastewater Treatment Facility

Physical Address of Project or Site: Approx. 1 mi. southwest of FM 1472 and Dolores Blvd on an unnamed country road, Webb County, Texas 78045

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



109181

	PLUMMER 1320 South University Drive, Suite 300 Fort Worth, Texas 76107 817-806-1700	CHASE JPMorgan Chase Bank, N.A. www.Chase.com 32-61/1110	CHECK DATE February 5, 2020
PAY	Three Hundred Fifteen and 00/100 Dollars	AMOUNT	315.00
TO	Texas Commission on Environmental Quality Attn: Cashier PO Box 13088 Austin, 78711-3088		 AUTHORIZED SIGNATURE



CITY OF LAREDO, TEXAS

TPDES PERMIT NO. WQ0010681006 COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY TPDES PERMIT RENEWAL APPLICATION

SUBMITTED TO:

TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY

MARCH 2020



PLUMMER

1107-001-01

**CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION**

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C	Treatment Process Description	Tech Rpt. 1.0 Section 2.A
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
**DOMESTIC WASTEWATER PERMIT APPLICATION
 CHECKLIST**



Complete and submit this checklist with the application.

APPLICANT: City of Laredo

PERMIT NUMBER: W00010681006

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 type="checkbox"/>	<input checked="" type="checkbox"/>	Affected Landowners Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Design Calculations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input 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: 109181
Check/Money Order Amount: \$315.00
Name Printed on Check: Plummer

EPAY Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes

Section 2. Type of Application (Instructions Page 29)

- | | |
|---|---|
| <input 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 checked="" type="checkbox"/> Renewal without changes | <input type="checkbox"/> Minor Modification of permit |

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

For existing permits:

Permit Number: WQ0010681006

EPA I.D. (TPDES only): TX0107395

Expiration Date: September 1, 2020

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

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

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

City of Laredo

(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: 600131908

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: Robert Eads

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

Title: Interim Co-City Manager

B. Co-applciant 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-applciant 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-applciant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at:

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

CN: N/A

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

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

First and Last Name: N/A

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

Title: N/A

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

C. Core Data Form

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

Attachment: A

Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001

E-mail Address: rmia@ci.laredo.tx.us

Check one or both: Administrative Contact Technical Contact

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

First and Last Name: Tres Koenings

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

Title: Senior Project Manager

Organization Name: Plummer Associates, Inc.

Mailing Address: 6300 La Calma Dr, Ste 400

City, State, Zip Code: Austin, TX 78752

Phone No.: (512) 687-2148 Ext.: N/A Fax No.: (512) 452-2325

E-mail Address: tkoenings@plummer.com

Check one or both: Administrative Contact Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: Riazul I. Mia
Credential (P.E, P.G., Ph.D., etc.): P.E., CFM
Title: Utilities Director
Organization Name: City of Laredo
Mailing Address: 5816 Daugherty Ave.
City, State, Zip Code: Laredo, TX 78041
Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001
E-mail Address: rmia@ci.laredo.tx.us

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

First and Last Name: Michael Rodgers
Credential (P.E, P.G., Ph.D., etc.):
Title: Assistant Utilities Director
Organization Name: City of Laredo
Mailing Address: 5816 Daugherty Ave.
City, State, Zip Code: Laredo, TX 78041
Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001
E-mail Address: mrodgers@ci.laredo.tx.us

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: Riazul I. Mia
Credential (P.E, P.G., Ph.D., etc.): P.E., CFM
Title: Utilities Director
Organization Name: City of Laredo
Mailing Address: 5816 Daugherty Ave.
City, State, Zip Code: Laredo, TX 78041
Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001
E-mail Address: rmia@ci.laredo.tx.us

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

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

Prefix (Mr., Ms., Miss): Mr.
First and Last Name: Riazul I. Mia
Credential (P.E, P.G., Ph.D., etc.): P.E., CFM
Title: Utilities Director
Organization Name: City of Laredo
Mailing Address: 5816 Daugherty Ave.
City, State, Zip Code: Laredo, TX 78041
Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001
E-mail Address: rmia@ci.laredo.tx.us

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: Tres Koenings
Credential (P.E, P.G., Ph.D., etc.):
Title: Senior Project Manager
Organization Name: Plummer Associates, Inc.
Mailing Address: 6300 La Calma Dr, Ste 400
City, State, Zip Code: Austin, TX 78752
Phone No.: (512) 687-2148 Ext.: N/A Fax No.: (512) 452-2325
E-mail Address: tkoenings@plummer.com

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

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

- E-mail Address tkoenings@plummer.com
- Fax
- Regular Mail

C. Contact person to be listed in the Notices

Prefix (Mr., Ms., Miss): Mr.
First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Phone No.: (956) 721-2000 Ext.: N/A

E-mail: rmia@ci.laredo.tx.us

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: Joe A. Guerra Laredo Public Library

Location within the building: First Floor Reference Desk

Physical Address of Building: 1120 E. Calton Rd.

City: Laredo

County: Webb

Contact Name: Maria G. Soliz

Phone No.: (956) 795-2400 Ext.: 2222

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. RN101607984

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):

Columbia Bridge Wastewater Treatment Facility

C. Owner of treatment facility: City of Laredo

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: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: (956) 721-2000

E-mail Address: rmia@ci.laredo.tx.us

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

Attachment: N/A

E. Owner of effluent disposal site:

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

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

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

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

Yes No

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

N/A

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:

N/A

City nearest the outfall(s): Laredo

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

Outfall Latitude: 27° 41' 35.89"

Longitude: - 99° 44' 16.38"

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 N/A

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: N/A

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

N/A

Section 11. TLAP Disposal Information (Instructions Page 36)

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

Yes No

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

N/A

- B. City nearest the disposal site: Laredo

- C. County in which the disposal site is located: Webb

- D. Disposal Site Latitude: 27° 41' 36.05" Longitude: -99° 44' 11.54"

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

No routing of the effluent has been undertaken: Although authorized in the TPDES permit, land application of the effluent has never commenced

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

Rio Grande Below Amistad Reservoir in Segment No. 2304

Section 12. Miscellaneous Information (Instructions Page 37)

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

Yes No

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

Yes No Not Applicable

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

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

N/A

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

- Yes No

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

Tres Koenings, Plummer Associates, Inc.

D. Do you owe any fees to the TCEQ?

- Yes No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

- Yes No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 38)

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

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

- Attachment 1 for Individuals as co-applicants
- Other Attachments. Please specify: See Table of Attachments

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: W00010681006

Applicant: City of Laredo

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): Robert A Eads, ICMA-CM

Signatory title: Interim Co-City Manager

Signature:  Date: 2/19/2020
(Use blue ink)

Subscribed and Sworn to before me by the said Robert A. Eads
on this 19 day of February, 20 20.
My commission expires on the 21 day of February, 20 22.


Notary Public

[SEAL]

Webb
County, Texas

**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: City of Laredo

Permit No. WQ00 10681006

EPA ID No. TX 0107395

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

Approximately 1.1 mile southwest of Farm-to-Market Road 1472 and State Highway 255 on an unnamed country road and 10.5 miles west-northwest of Farm-to-Market Roads 1472 and 3338, adjacent to the Rio Grande in Webb County, Texas 78045

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: Riazul I. Mia

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

Title: Utilities Director

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001

E-mail Address: rmia@ci.laredo.tx.us

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

Directly to Rio Grande Below Amistad Reservoir in Segment No. 2304 of the Rio Grande Basin

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). See SPIF 1 and SPIF 2

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

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):

To Be Determined

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

Existing land use is typical of a wastewater treatment facility of this size.

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

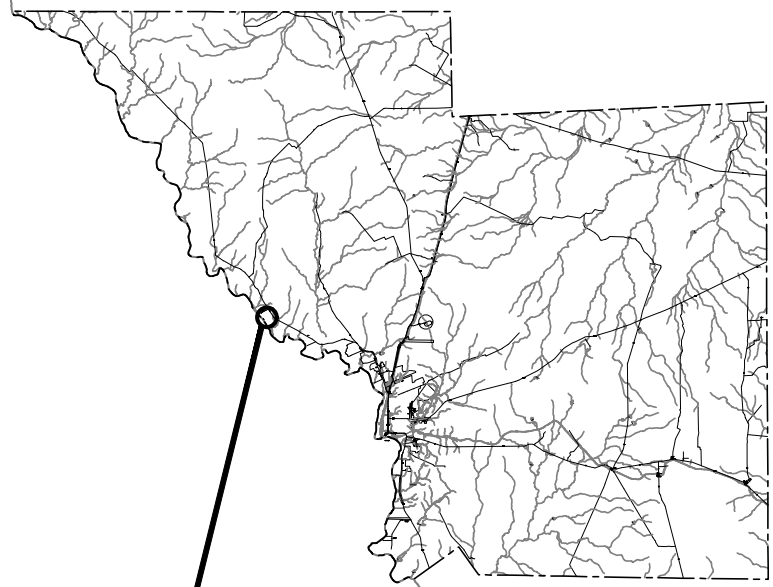


PLUMMER

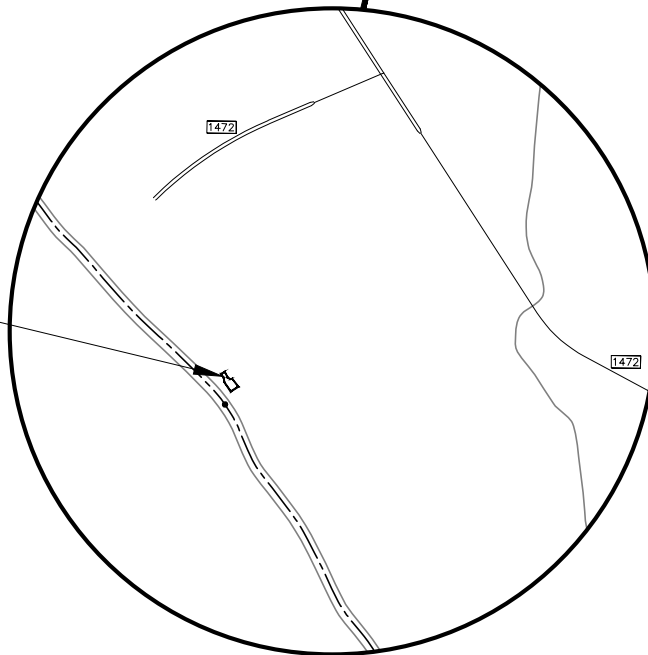


N.T.S.

WEBB COUNTY



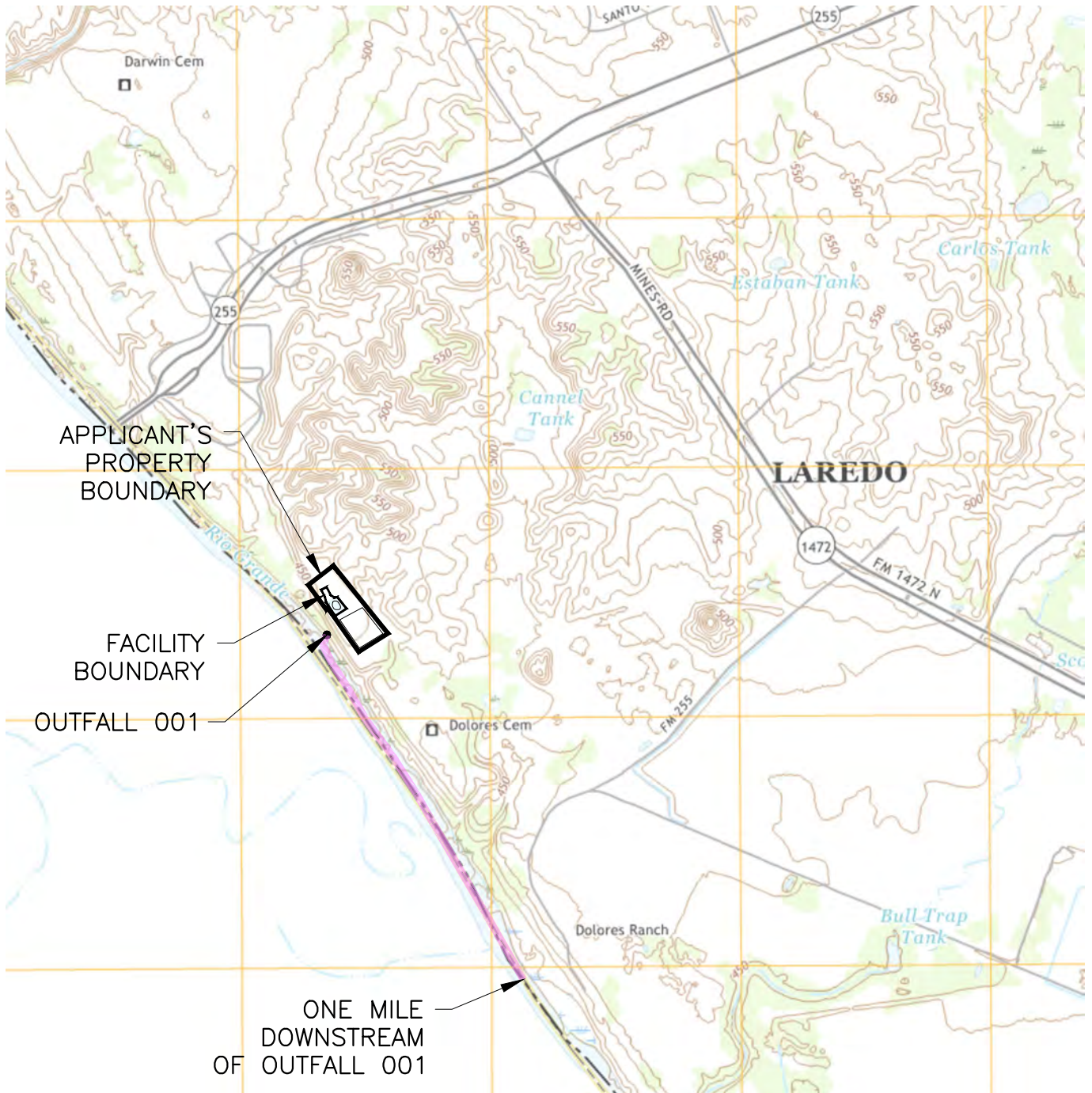
PROJECT
SITE



SPIF 1
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
GENERAL LOCATION MAP



PLUMMER



APPLICANT'S
PROPERTY
BOUNDARY

FACILITY
BOUNDARY

OUTFALL 001

ONE MILE
DOWNSTREAM
OF
OUTFALL 001

**SPIF 2
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP**

TEXAS REGISTERED ENGINEERING FIRM F-13
1/31/2020 2:09 PM M:\Projects\1107\001-01\2-0 Wrk Prod\2-1 ACAD\FIGURES\Columbia Bridge\FIGURES\FIG-SPIF-USGS.dwg Briand



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): 0.035

2-Hr Peak Flow (MGD): 0.10

Estimated construction start date: Currently Operating

Estimated waste disposal start date: Currently Operating

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 0.16

2-Hr Peak Flow (MGD): 0.45

Estimated construction start date: 2023

Estimated waste disposal start date: 2025

D. Current operating phase: Existing/Interim I

Provide the startup date of the facility: 1993

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

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

See Attachment C

Port or pipe diameter at the discharge point, in inches: 15"

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)
<u>See Attachment D</u>		

C. Process flow diagrams

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

Attachment: E

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: F

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

The Columbia WWTP is a satellite plant that serves a small area approximately 10 miles northwest of the City of Laredo. The service area is bordered by the Rio Grande River on the west and serves developments along FM 1472. The Columbia WWTP service area is approximately 2 square miles.

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.

The planned proposed future construction phase will still be needed. The area served by this plant has not developed as expected; the area growth rate, although slower than that of the main city areas, is still growing. The area's growth rate is expected to require the initiation of the proposed/planned expansion in the near future. Therefore, it is recommended to keep the proposed construction phase.

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 N/A

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes No

If yes, provide the date(s) of approval for each phase: 1993

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.

A summary transmittal letter will be submitted to the TCEQ prior to construction of the Final Phase treatment facility.

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

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

Other Requirement 9.e: The City of Laredo has been performing the annual soil analysis and submitting the laboratory results to the TCEQ regional office, as required.

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.

N/A

3. Grit disposal

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

Yes No N/A

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.

N/A

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.

N/A

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 or TXRNE AD77

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

Yes No N/A

3. Conditional exclusion

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

Yes No

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

N/A

4. Existing coverage in individual permit

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

Yes No

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

N/A

5. Zero stormwater discharge

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

Yes No

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

N/A

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

6. Request for coverage in individual permit

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

Yes No

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

Yes No

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

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

1. Acceptance of sludge from other WWTPs

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

Yes No

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

In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes No

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

Yes No N/A

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

Yes No N/A

If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

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

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

Yes No

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

N/A

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

Is the facility in operation?

Yes

No

See Attachment G

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	2.55	2.55	1	Grab	12/18/2019 11:55
Total Suspended Solids, mg/l	5.00	5.00	1	Grab	12/18/2019 11:55
Ammonia Nitrogen, mg/l	0.045	0.045	1	Grab	12/18/2019 11:55
Nitrate Nitrogen, mg/l	40.2	40.2	1	Grab	12/18/2019 11:55
Total Kjeldahl Nitrogen, mg/l	0.783	0.783	1	Grab	12/18/2019 11:55
Sulfate, mg/l	314	314	1	Grab	12/18/2019 11:55
Chloride, mg/l	172	172	1	Grab	12/18/2019 11:55
Total Phosphorus, mg/l	5.70	5.70	1	Grab	12/18/2019 11:55
pH, standard units	6.53	6.53	1	Grab	12/12/2019 09:00

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Dissolved Oxygen*, mg/l	3.02	3.02	1	Grab	12/12/2019 08:49
Chlorine Residual, mg/l	2.1	2.1	1	Grab	12/12/2019 08:35
<i>E.coli</i> (CFU/100ml) freshwater	1.0	1.0	1	Grab	12/12/2019 08:45
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	978	978	1	Grab	12/18/2019 11:55
Electrical Conductivity, μ mohs/cm, †	1410	1410	1	Grab	12/18/2019 11:55
Oil & Grease, mg/l	1.3	1.3	1	Grab	12/18/2019 11:55
Alkalinity (CaCO ₃)*, mg/l	6.40	6.40	1	Grab	12/18/2019 11:55

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Jose E. Chavarria

Facility Operator's License Classification and Level: Wastewater Class A

Facility Operator's License Number: WW0003855

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

A. Sludge disposal method

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

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

B. Sludge disposal site

Disposal site name: South Laredo Wastewater Treatment Facility

TCEQ permit or registration number: WQ0010681003

County where disposal site is located: Webb

C. Sludge transportation method

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

Name of the hauler: City of Laredo

Hauler registration number: 21804

Sludge is transported as a:

Liquid semi-liquid semi-solid solid

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

A. Beneficial use authorization

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

Yes No

If **yes**, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

Yes No N/A

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 N/A

B. Sludge processing authorization

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

Sludge Composting	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Marketing and Distribution of sludge	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Sludge Surface Disposal or Sludge Monofill	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Temporary storage in sludge lagoons	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

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 N/A

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes No

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

A. Location information

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

- Original General Highway (County) Map:

Attachment: N/A

- USDA Natural Resources Conservation Service Soil Map:

Attachment: N/A

- Federal Emergency Management Map:

Attachment: N/A

- Site map:

Attachment: N/A

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

Check all that apply.

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

Attachment: N/A

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

N/A

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

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

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum

hydraulic conductivity of 1×10^{-7} cm/sec?

Yes No

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

N/A

D. Site development plan

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

N/A

Attach the following documents to the application.

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

E. Groundwater monitoring

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

Yes No

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

Attachment: N/A

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

A. Additional authorizations

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

Yes No

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

Reclaimed Water Use Authorization No. R10681006

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes No

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

Yes No

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

N/A

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

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will

it receive RCRA hazardous waste?

Yes No

B. Remediation activity wastewater

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

Yes No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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


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

CERTIFICATION:

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

Printed Name: Robert A. Eads, ICMA-CM

Title: Interim Co-City Manager

Signature: 

Date: 2/19/2020

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

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

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

Yes No

If yes, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

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

Attachment: N/A

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

Does the facility discharge into tidally affected waters?

Yes No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: N/A

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).

N/A

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).

<u>N/A</u>

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: N/A

A. Receiving water type

Identify the appropriate description of the receiving waters.

- Stream
- Freshwater Swamp or Marsh
- Lake or Pond

Surface area, in acres: N/A

Average depth of the entire water body, in feet: N/A

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

- Man-made Channel or Ditch
- Open Bay

- Tidal Stream, Bayou, or Marsh
- Other, specify: N/A

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: N/A

C. Downstream perennial confluences

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

<u>N/A</u>

D. Downstream characteristics

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

- Yes No

If yes, discuss how.

N/A

E. Normal dry weather characteristics

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

N/A

Date and time of observation: N/A

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 type="checkbox"/> Agricultural runoff |
| <input type="checkbox"/> Septic tanks | <input type="checkbox"/> Other(s), specify <u>N/A</u> |

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 |

- | | |
|--|---|
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input type="checkbox"/> Other(s), specify <u>N/A</u> |

C. Waterbody aesthetics

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

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

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- | | |
|--|--|
| <input type="checkbox"/> Surface application | <input type="checkbox"/> Subsurface application |
| <input checked="" type="checkbox"/> Irrigation | <input type="checkbox"/> Subsurface soils absorption |
| <input type="checkbox"/> Drip irrigation system | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input checked="" type="checkbox"/> Evaporation | |
| <input type="checkbox"/> Evapotranspiration beds | |
| <input type="checkbox"/> Other (describe in detail): | |

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: N/A

Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) - Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Landscape	6.63	160,000	N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) - Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	1.03	12.36	N/A	Compacted Clay

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Available on Request. Pond Liner Certification has previously been submitted and approved.

Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site within the 100-year frequency flood level?

Yes No

If yes, describe how the site will be protected from inundation.

N/A

Provide the source used to determine the 100-year frequency flood level:

FEMA FIRM Panel 48479C1000C

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Earthen berms and Native grass stands are in place to provide tailwater control of irrigated effluent areas. Run-on is protected by roadway and upgradient perimeter berms.

Section 5. Annual Cropping Plan (Instructions Page 77)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

Attachment: I

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: B

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries

- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) - Water Well Data

N/A - No wells within 1 mile of the facility

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
N/A	N/A	N/A	N/A	N/A
			Choose an item.	
			Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: N/A

Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: N/A - Land Application Has Not Been Implemented

Are groundwater monitoring wells available onsite? Yes No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes No

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: N/A

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: N/A - Not Requested by the TCEQ

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note:** for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: G

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) - Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
Lagloria silt loam	63 cm	9.0×10^{-4} cm/s	0.15 cm/cm	71
Maverick-Catarina complex	60 cm	1.0×10^{-4} cm/s	0.14 cm/cm	89

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) - Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD ₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
<u>See Attachment J</u>						

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

N/A

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

Yes

No

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

N/A

C. Treatment plant pass through

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

Yes No

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes No N/A

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

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

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

A. Substantial modifications

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

Yes No

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

N/A

B. Non-substantial modifications

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

Yes No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) - Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
<u>See Attachment K</u>				

D. Industrial user interruptions

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

Yes No

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

N/A

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

A. General information

Company Name: N/A

SIC Code: N/A

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

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: Continuous Batch Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: Continuous Batch Intermittent

E. Pretreatment standards

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

Yes No

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

Yes No

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

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

F. Industrial user interruptions

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

Yes No

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

<u>N/A</u>

**CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION**

TABLE OF ATTACHMENTS

<u>No.</u>	<u>Description</u>	<u>Reference</u>
A	Core Data Form	Admin Rpt 1.0 Section 3.C
B	U.S. Geological Survey Map	Admin Rpt 1.0 Section 13
C	Treatment Process Description	Tech Rpt. 1.0 Section 2.A
D	List of Treatment Units	Tech Rpt. 1.0 Section 2.B
E	Process Flow Diagram	Tech Rpt. 1.0 Section 2.C
F	Site Drawing	Tech Rpt. 1.0 Section 4
G	Effluent and Soil Analyses	Tech Rpt. 1.0 Section 7
H	Sludge Transportation Agreement	Tech Rpt. 1.0 Section 9
I	Cropping Plan Justification	Wksht 3.0 Section 5
J	Effluent Monitoring Data	Wksht 3.0 Section 9
K	Effluent Parameters Above the MAL	Wksht 6.0 Section 2.C

ATTACHMENT A

**Core Data Form
Admin Rpt 1.0 Section 3.C**



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission <i>(If other is checked please describe in space provided.)</i>		
<input type="checkbox"/> New Permit, Registration or Authorization <i>(Core Data Form should be submitted with the program application.)</i>		
<input checked="" type="checkbox"/> Renewal <i>(Core Data Form should be submitted with the renewal form)</i>	<input type="checkbox"/> Other	
2. Customer Reference Number <i>(if issued)</i>	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number <i>(if issued)</i>
CN 600131908		RN 101607984

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>			
6. Customer Legal Name <i>(If an individual, print last name first: eg: Doe, John)</i>		<i>If new Customer, enter previous Customer below:</i>	
City of Laredo			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number <i>(if applicable)</i>
N/A	N/A	N/A	N/A
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input checked="" type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:	1110 Houston Street		
	City	Laredo	State TX ZIP 78040 ZIP + 4 8019
16. Country Mailing Information <i>(if outside USA)</i>		17. E-Mail Address <i>(if applicable)</i>	
N/A		reads@ci.laredo.tx.us	
18. Telephone Number	19. Extension or Code	20. Fax Number <i>(if applicable)</i>	
(956) 721-7302		(956) 721-7498	

SECTION III: Regulated Entity Information

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

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Approximately 1.1 mi southwest of Farm-to-Market Road 1472 and State Highway 255 on an unnamed country road and 10.5 miles west-northwest of Farm-to-Market Roads 1472 and 3338, adjacent to the Rio Grande in Webb County, Texas 78045											
26. Nearest City	Laredo				State	TX	Nearest ZIP Code		78040			
27. Latitude (N) In Decimal:	27.6922			28. Longitude (W) In Decimal:	99.7369							
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds							
29. Primary SIC Code (4 digits)	4952		30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)	221320			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>												
This facility primarily treats domestic wastewater.												
34. Mailing Address:	5816 Daugherty Ave.											
	City	Laredo	State	TX	ZIP	78041	ZIP + 4	3337				
35. E-Mail Address:	rmi@ci.laredo.tx.us											
36. Telephone Number			37. Extension or Code			38. Fax Number <i>(if applicable)</i>						
(956) 721-2000						(956) 721-2001						

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 checked="" 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:
	TXRNEAD77			
	WQ0010681006 R10681006			

SECTION IV: Preparer Information

40. Name:	Jenni English	41. Title:	Engineer in Training
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 687-2193		(512) 452-2325	jenglish@plummer.com

SECTION V: Authorized Signature

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

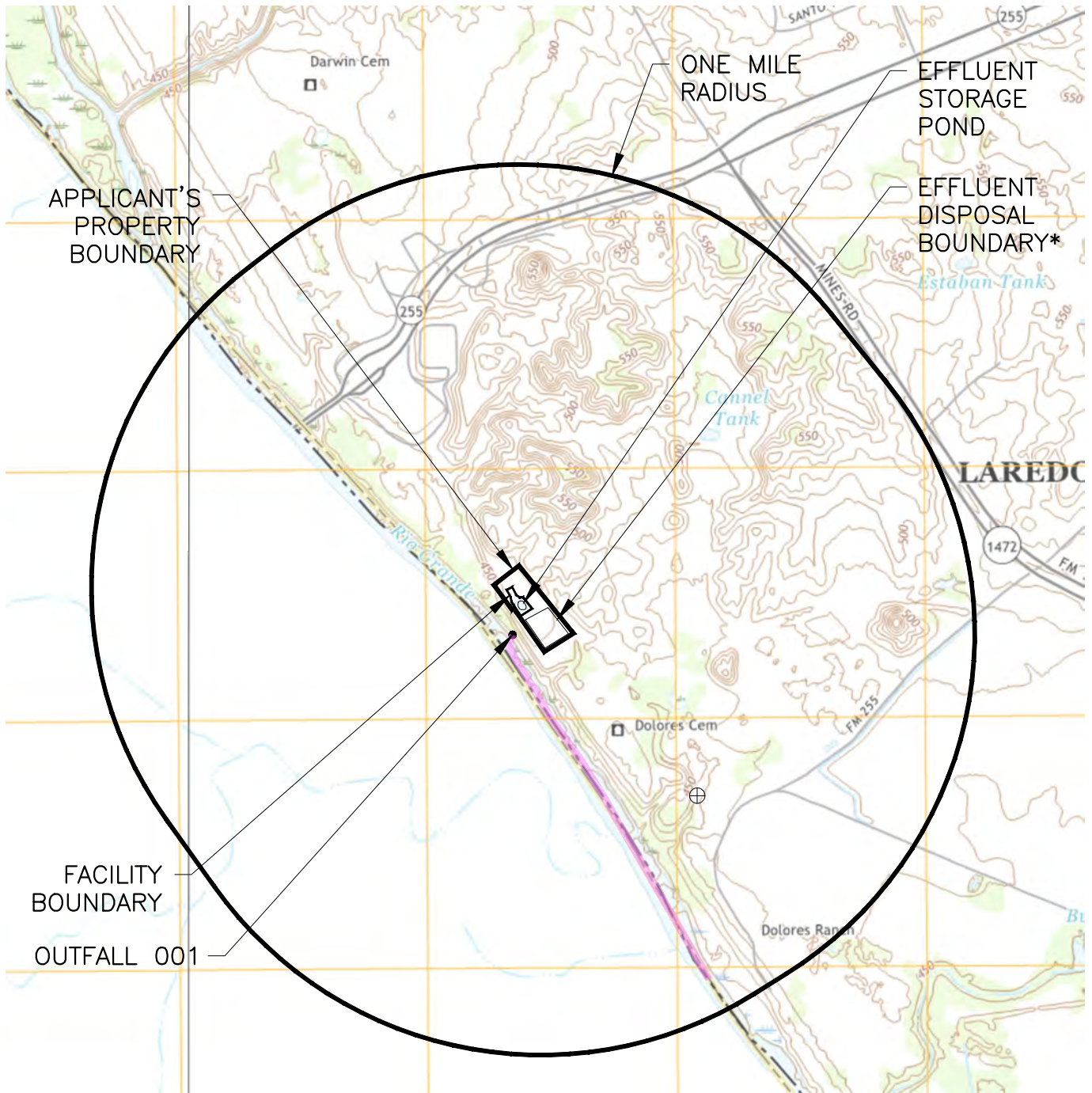
Company:	City of Laredo	Job Title:	City Manager
Name <i>(In Print)</i> :	Robert A. Eads, ICMA-CM	Phone:	(956) 791-7302
Signature:		Date:	5/1/2020

ATTACHMENT B

**U.S. Geological Survey Map
Admin Rpt 1.0 Section 13**



PLUMMER



LEGEND

⊕ EXISTING WELL

* LAND DISPOSAL OF EFFLUENT HAS NEVER COMMENCED

**ATTACHMENT B
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP**

TEXAS REGISTERED ENGINEERING FIRM F-13
1/31/2020 2:09 PM M:\Projects\1107\001-01\2-0 Wrk Prod\2-1 ACAD\FIGURES\Columbia Bridge\FIGURES\FIG-USGS.dwg Briand

ATTACHMENT C

**Treatment Process Description
Tech Rpt. 1.0 Section 2.A**

**ATTACHMENT C
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION**

TREATMENT PROCESS DESCRIPTION

The current 0.035 MGD phase is an activated sludge extended aeration package plant. The treatment process consists of the following units: Bar Screen, Extended Activated Sludge Treatment, Secondary Clarification, Chlorination, and Solids Handling.

Influent raw wastewater is pumped to a manual bar screen from an on-site lift station. Following the bar screen, the wastewater then flows to the activated sludge aeration basin, and then flows to the clarifier. Settled activated sludge is returned to the aeration basin from the clarifier as return activated sludge (RAS) or wasted to an aerobic digester as waste activated sludge (WAS). The clarifier effluent flows to a chlorine contact chamber for chlorination and then is discharged as final effluent. Sludge from the aerobic digester is transported via a tanker truck to the South Laredo WWTF for belt filter press dewatering and disposal at the City of Laredo landfill. Additionally, the wastes collected from the bar screenings are transported to the South Laredo WWTF for disposal with dewatered sludge.

The treatment process for the planned second phase is intended to follow the same process flow as for the existing phase.

ATTACHMENT D

**List of Treatment Units
Tech Rpt. 1.0 Section 2.B**

**ATTACHMENT D
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION**

LIST OF TREATMENT UNITS

EXISTING PHASE		
Type of Unit	Number of Units	Dimensions
Aeration Tank	1	73' L x 24' W x 11' H
Clarifier	1	10' Radius x 12' SWD
Sludge Tank	1	24' L x 8' W x 11' H
Chlorination Basin	1	13' L x 3' W x 9' H
Effluent Holding Pond	1	2.65 MGD

FINAL PHASE*		
Type of Unit	Number of Units	Dimensions
Aeration Tank	2	73' L x 24' W x 11' H
Clarifier	2	10' Radius x 12' SWD
Sludge Tank	2	24' L x 8' W x 11' H
Chlorination Basin	2	24' L x 3' W x 11' H
Effluent Holding Pond	1	2.65 MGD

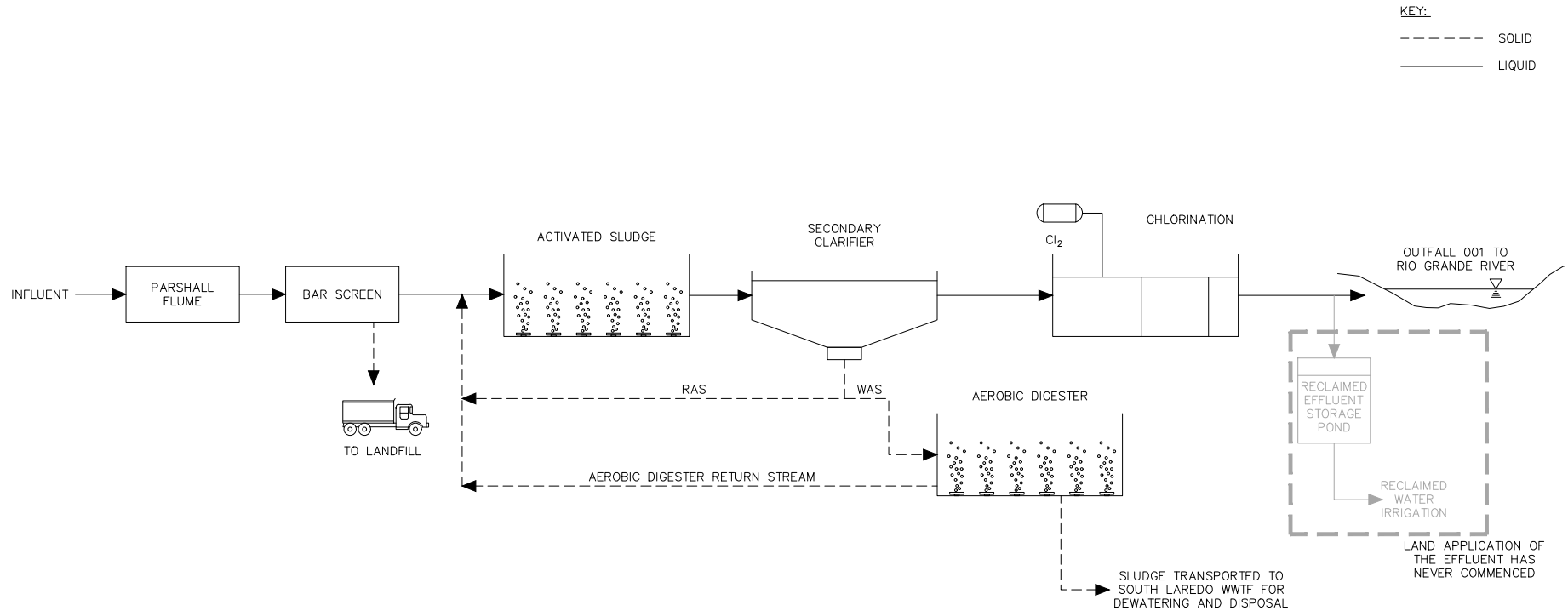
**Sizing is tentative and may be adjusted at time of design*

ATTACHMENT E

**Process Flow Diagram
Tech Rpt. 1.0 Section 2.C**



PLUMMER



KEY:
----- SOLID
————— LIQUID

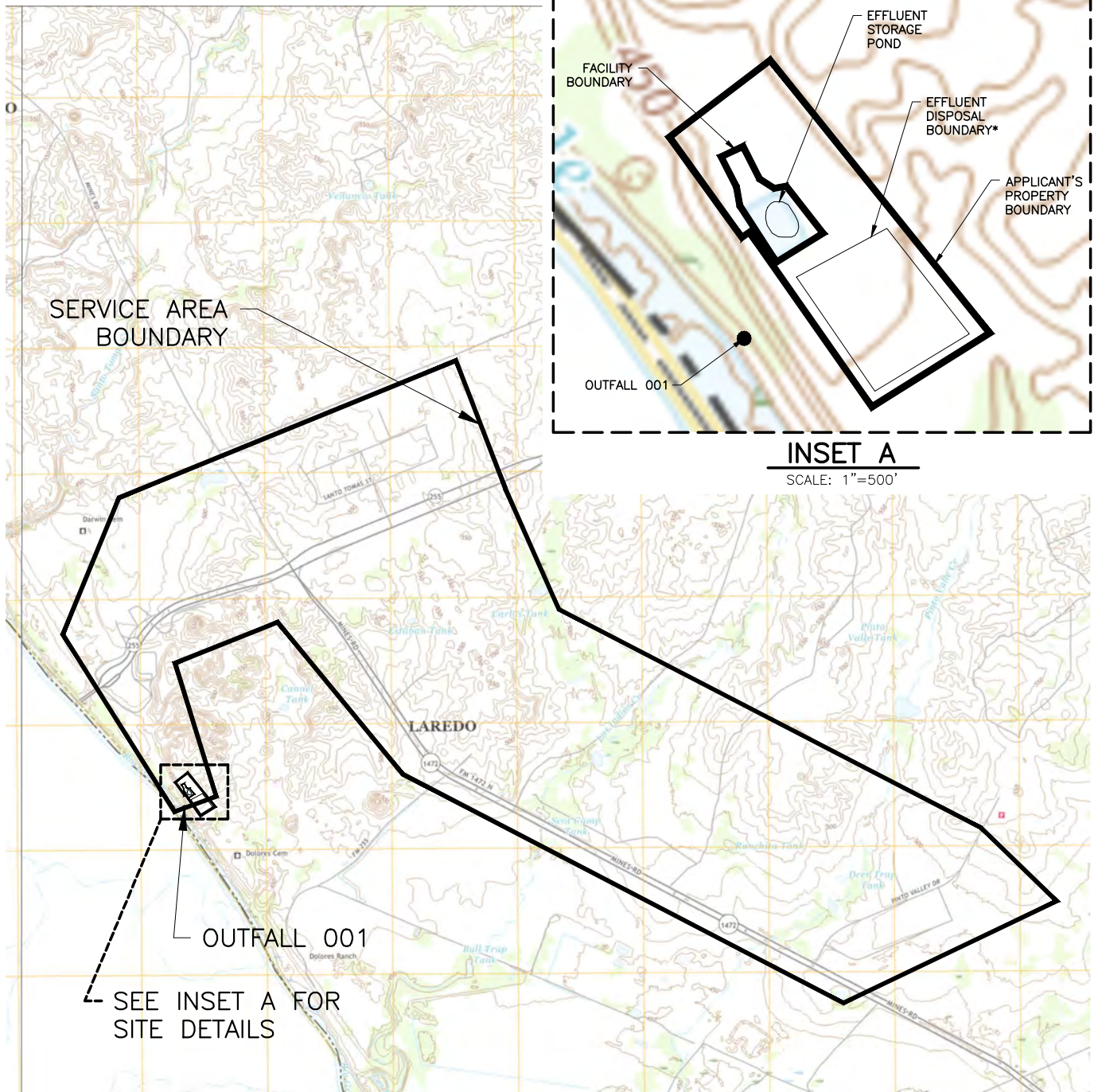
**ATTACHMENT E
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
PROCESS FLOW DIAGRAM**

ATTACHMENT F

**Site Drawing
Tech Rpt. 1.0 Section 4**



PLUMMER



* LAND DISPOSAL OF EFFLUENT HAS NEVER COMMENCED

ATTACHMENT F
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SITE DRAWING

TEXAS REGISTERED ENGINEERING FIRM F-13
1/31/2020 2:08 PM M:\Projects\1107\001-01\2-0 Wrk Prod\2-1 ACAD\FIGURES\Columbia Bridge\FIGURES\FIG-SITE.dwg Briand

ATTACHMENT G

**Effluent and Soil Analyses
Tech Rpt. 1.0 Section 7**

CITY OF LAREDO UTILITIES LABORATORY FIELD ANALYSIS WORKSHEET
LAREDO COLUMBIA WWTF

DATE (Sampling & Analysis): 12.12.2019

pH ANALYSIS (Standard Methods (4500-H+pH Value))

pH SAMPLE INFORMATION				pH ANALYSIS INFORMATION				pH Result (SU) <u>6.53</u>	
Sample Identification	Sampling Point	Sample Collection Time	Sampled By	Analysis Time	1st Reading Sample		2nd Reading Sample		Analyzed By
					Temp. C°	pH (SU)	Temp. C°	pH (SU)	
Final Effluent	collected at end of chlorine contact chamber	<u>08:44</u>	<u>Julian Garza</u>	<u>09:00</u>	<u>6.9°</u>	<u>6.53</u>	<u>6.9°</u>	<u>6.58</u>	<u>Jessie Oviedo</u>

pH METER INFORMATION		
ID #	Brand	Model #
<u>PH-11</u>	<u>ORION</u>	<u>230A</u>

pH METER CALIBRATION INFORMATION								
Time	Buffer 4		Buffer 7		Buffer 10		% Slope	Calibrated By
	Temp. (C°)	Cal Point (SU)	Temp. (C°)	Cal Point (SU)	Temp. (C°)	Cal Point (SU)		
<u>08:58</u>	<u>19.2°</u>	<u>4.01</u>	<u>19.2°</u>	<u>7.02</u>	<u>-</u>	<u>-</u>	<u>94.0</u>	<u>Jessie Oviedo</u>
	Expiration Date	<u>4, 2020</u>	Expiration Date	<u>4, 2020</u>	Expiration Date	<u>5, 2020</u>		

TOTAL CHLORINE RESIDUAL ANALYSIS (Adapted Standard Methods DPD (Hach 8167 Method))

TOTAL CHLORINE RESIDUAL SAMPLE INFORMATION			
Sample Identification	Sampling Point	Sample Collection Time	Sampled By
Final Effluent	collected at end of chlorine contact chamber	<u>08:45</u>	<u>Julian Garza</u>

Meter Check (2ppm Potassium Permanganate Standard)		Total Chlorine Residual (mg/L)	Result
Date: <u>12.11.2019</u>	Time: <u>08:35</u>	<u>2.1</u>	
DPD FAS Titration Method <u>1.95</u> mg/L			
Meter Reading <u>2.0</u> (mg/L)	% Diviation: <u>1.27%</u>		

TOTAL CHLORINE RESIDUAL INFORMATION					
Analysis Time	Meter ID	Range Used (High or Low)	Sample Reading (mg/l)	Duplicate Sample Reading (mg/l)	Sampled By
<u>08:45</u>	<u>CL-09</u>	<u>High Range</u>	<u>2.1</u>	<u>2.1</u>	<u>Julian Garza</u>

DISSOLVED OXYGEN ANALYSIS (Standard Methods (4500-OG. Membrane Electrode Method))

DISSOLVED OXYGEN SAMPLE INFORMATION			
Sample Identification	Sampling Point (in situ)	Sample Collection Time	Sampled By
Final Effluent	at end of chlorine contact chamber	<u>N/A</u>	<u>N/A</u>

DISSOLVED OXYGEN ANALYSIS INFORMATION			DO Result (mg/L) <u>3.02</u>
Analysis Time	in situ Meter Reading		Analyzed By
	Temp. C°	DO (mg/L)	
<u>08:49</u>	<u>14.7°</u>	<u>3.02</u>	<u>Jessie Oviedo</u>

DO METER INFORMATION		
ID #	Brand	Model #
<u>D025</u>	<u>YSI</u>	<u>Pro-20</u>

DISSOLVED OXYGEN METER CALIBRATION INFORMATION							
Time	Initial Reading mg/L	Calibration Temp C°	Altitude	Barometer Reading (mmHg)	Salinity (PPT)	Calibrated Reading mg/L	Calibrated By :
<u>08:35</u>	<u>11.49</u>	<u>10.9°</u>	<u>500 ft.</u>	<u>756.2</u>	<u>0</u>	<u>10.9</u>	<u>Jessie Oviedo</u>

Probe Standardization To Winkler Method Date: 12/6-2019 ±% Deviation: 2.44% By: M. Villarreal / J. Garza



CITY OF LAREDO HEALTH DEPARTMENT

Laboratory - Environmental Division

2600 Cedar St.
Laredo, TX 78040

TCEQ ID: T 10474638 - 08 TX

Phone: (956) 795 - 4908 x 4693

Fax: (956) 795 - 2188



Chain of Custody # ZD191217

Quanti-tray *E.coli* and Chain of Custody Form
EL02 APPENDIX DD

CLIENT NAME: City of Laredo
 ADDRESS: Springfield & Aldama St
 CITY/STATE/ZIP CODE: Laredo, TX 78041
 CONTACT: _____
 COUNTY: Webb SAMPLE TYPE: Grab
 PHONE: 956-795-2720 FAX: 956-795-2723

Circle One: Water Source Facility Name: Laredo Columbia Wastewater Treatment Facility
Effluent Facility ID #: TPDES EPA ID# TX 0107395

Sample ID:	Sampling Point	Disinfection Type	Chlorine Residual	Test Requested	Total Coliform Results (MPN/100mL)	E. Coli Results (MPN/100mL)
Final Effluent	End of chlorine contact chamber	Chlorine	2.1	IDEXX Laboratories Colilert	NA	1.0
				E.coli (enumeration)		

Sampled by: Julian Garza Date: 12.12.19 Time: 8:45 Received by: [Signature] Date: 12-12-19 Time: 11:17
 Relinquished by: [Signature] Date: 12-12-19 Time: 10:00 Received by: Lab: Paul Sims Date: 12/12/19 Time: 11:17 AM

Laboratory:
 Sample Arrival Condition: TCEQ Sample Arrival Volume: 100 ml/s Sample arrival temp. observed/recorded: 38/50
 Sample Accepted: ✓ Sample Rejected: _____ Chlorine Residual: 0.00 CI Strip Lot # & Exp. Date: 9091 1/2022
 Date & Time Analysis Started: 12/12/19 @ 12:05 Date & Time Analysis Finished: 12/13/19 @ 12:05
 Date & Time Results Reported to: _____ Reported By: [Signature]
 The test results on this report meets all NELAC requirements: Acceptable: ✓ Not Acceptable: _____
 Laboratory Contact: Ms. Rebeca I. Castro, Technical Director - (956) 795 - 4908 x 4693

Remarks / Lab ID #: 393114

Unsuitable Sx Analysis	1) Sx. Exceeds 6 hrs Holding Time <input type="checkbox"/>	3) Excessive chlorine Residual (> 10 mg/L) <input type="checkbox"/>	5) Form Incomplete, not Filled accordingly/Date Discrepancy <input type="checkbox"/>
Rejection Criteria	2) Insufficient Sx Volume (100 ml) <input type="checkbox"/>	4) Heavy Turbidity Present / Excessive Material <input type="checkbox"/>	6) Other: <input type="checkbox"/>

Rev: #2-9/28/12 ; #3-2/6/19; #4-11/19/19; Effective: 11/19/19

ANALYTICAL REPORT

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Tel: (361)289-2673

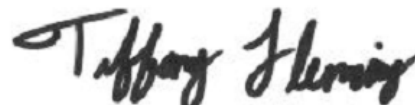
Laboratory Job ID: 560-84031-1

Client Project/Site: Columbia Bridge WWTP TPDES Application

For:

City of Laredo
5816 Daugherty Avenue
Laredo, Texas 78041

Attn: Saad Hassoun



Authorized for release by:

1/15/2020 4:22:52 PM

Tiffany Fleming, Project Management Assistant I
(361)289-2673

tiffany.fleming@testamericainc.com

Designee for

Lindy Maingot, Project Manager I
(210)344-9751

lindy.maingot@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: City of Laredo
Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: City of Laredo
Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Job ID: 560-84031-1

Laboratory: Eurofins TestAmerica, Corpus Christi

Narrative

Job Narrative 560-84031-1

Comments

No additional comments.

Receipt

The samples were received on 12/19/2019 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 2.3° C and 2.3° C.

Metals

Method 6010B: Due to the high concentration of Magnesium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-455094 and analytical batch 160-455888 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (560-84031-D-2-B MS) and (560-84031-D-2-C MSD)

Method 6010B: The post digestion spike % recovery for Magnesium associated with batch preparation batch 160-455094 and analytical batch 160-455888 was outside of control limits indicating a potential matrix interference. The following samples are impacted: (560-84031-D-2-A PDS) .

Method 6010B: Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-455094 and analytical batch 160-456053 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (560-84031-D-2-B MS ^10) and (560-84031-D-2-C MSD ^10)

Method 6010B: The post digestion spike % recovery for Calcium associated with batch preparation batch 160-455094 and analytical batch 160-456053 was outside of control limits due to high concentrations of target analytes. The following samples are impacted: (560-84031-D-2-A PDS ^10) .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 9045D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Laredo Columbia WWTP (560-84031-2).

Method SM5210B CBOD: The glucose-glutamic acid standard recovered outside the recovery limits specified in the method in batch 560-170028 .

Methods 300.0, 9056: The following samples were diluted due to the nature of the sample matrix: Laredo Columbia WWTP (560-84031-1), Laredo Columbia WWTP (560-84031-2), (560-83999-A-1 ^25), (560-83999-A-1 MS), (560-83999-A-1 MSD), (560-84011-A-1-A ^20), (560-84011-A-1-B MS) and (560-84011-A-1-C MSD). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was analyzed outside of analytical holding time due to system outages. Laredo Columbia WWTP (560-84031-1)

Method 300.0: The instrument blank for analytical batch 560-170350 contained NO3 greater than the method detection limit (MDL), and were not reanalyzed because recovery was less than the RL. The data have been qualified and reported.

Method 9056: The instrument blank for analytical batch 560-170350 contained NO3/SO4 greater than the method detection limit (MDL), and were not reanalyzed because recovery was less than the RL. The data have been qualified and reported.

Method 9056: The following sample was diluted due to the nature of the sample matrix: Laredo Columbia WWTP (560-84031-2). Elevated reporting limits (RLs) are provided.

Case Narrative

Client: City of Laredo
Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Job ID: 560-84031-1 (Continued)

Laboratory: Eurofins TestAmerica, Corpus Christi (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Client Sample ID: Laredo Columbia WWTP

Lab Sample ID: 560-84031-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	172		10.0	1.92	mg/L	10		300.0	Total/NA
Nitrate as N	40.2	H B	5.00	1.03	mg/L	10		300.0	Total/NA
Sulfate	314		10.0	3.77	mg/L	10		300.0	Total/NA
Nitrogen, Kjeldahl	0.783	J F1	1.00	0.432	mg/L	1		351.2	Total/NA
Total Alkalinity as CaCO3	6.40		5.00	5.00	mg/L	1		SM 2320B	Total/NA
Specific Conductance	1410		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	978		20.0	20.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	5.00		2.00	2.00	mg/L	1		SM 2540D	Total/NA
Total Phosphorus	5.70		0.500	0.210	mg/L	10		SM4500 P E-1999	Total/NA
Carbonaceous Biochemical Oxygen Demand	2.55	*	2.00	2.00	mg/L	1		SM5210B CBOD	Total/NA

Client Sample ID: Laredo Columbia WWTP

Lab Sample ID: 560-84031-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Calcium	460				mg/L	1		20B	Soluble
Dissolved Magnesium	76.0				mg/L	1		20B	Soluble
Dissolved Sodium	339				mg/L	1		20B	Soluble
Sodium Adsorption Ratio	3.90				NONE	1		20B	Soluble
Dissolved Potassium	0.000				mg/L	1		20B	Soluble
Calcium	48900		2430	729	mg/Kg	10		6010B	Total/NA
Sodium	455		97.2	24.3	mg/Kg	1		6010B	Total/NA
Magnesium	4270		97.2	24.3	mg/Kg	1		6010B	Total/NA
Potassium	1460	F1	486	146	mg/Kg	1		6010B	Total/NA
Phosphorus	335		48.6	14.6	mg/Kg	1		6010B	Total/NA
Sulfur	2460	F1	486	146	mg/Kg	1		6010B	Total/NA
Ammonia	5.29	J F2 F1	20.0	2.37	mg/Kg	1		350.1	Total/NA
Nitrogen, Kjeldahl	240	F1	40.0	31.1	mg/Kg	1		351.2	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		9045D	Total/NA
Nitrogen, Organic	235		1.00	0.777	mg/Kg	1		Nitrogen,Org	Total/NA
Nitrate as N	41.2	J B	100	4.00	mg/L	20		9056	Soluble
Chloride	89.0	J	200	10.0	mg/L	20		9056	Soluble
Sulfate	3680	B	200	20.0	mg/L	20		9056	Soluble
Specific Conductance	1840		1.00	1.00	umhos/cm	1		SM 2510B	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Corpus Christi

Client Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Client Sample ID: Laredo Columbia WWTP

Lab Sample ID: 560-84031-1

Date Collected: 12/18/19 11:55

Matrix: Water

Date Received: 12/19/19 08:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	1.3	U	4.8	1.3	mg/L			12/20/19 09:05	1
Chloride	172		10.0	1.92	mg/L			12/31/19 19:30	10
Nitrate as N	40.2	H B	5.00	1.03	mg/L			12/31/19 19:30	10
Sulfate	314		10.0	3.77	mg/L			12/31/19 19:30	10
Nitrogen, Kjeldahl	0.783	J F1	1.00	0.432	mg/L			01/08/20 15:28	1
Total Alkalinity as CaCO3	6.40		5.00	5.00	mg/L			12/27/19 13:45	1
Specific Conductance	1410		1.00	1.00	umhos/cm			01/07/20 09:40	1
Total Dissolved Solids	978		20.0	20.0	mg/L			12/24/19 14:50	1
Total Suspended Solids	5.00		2.00	2.00	mg/L			12/20/19 11:15	1
Ammonia as N	0.0450	U	0.200	0.0450	mg/L			12/23/19 16:13	1
Total Phosphorus	5.70		0.500	0.210	mg/L		12/31/19 01:57	12/31/19 06:08	10
Carbonaceous Biochemical Oxygen Demand	2.55	*	2.00	2.00	mg/L			12/19/19 13:45	1

Client Sample ID: Laredo Columbia WWTP

Lab Sample ID: 560-84031-2

Date Collected: 12/18/19 10:00

Matrix: Solid

Date Received: 12/19/19 08:30

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Calcium	460				mg/L		12/27/19 11:40	01/07/20 14:55	1
Dissolved Magnesium	76.0				mg/L		12/27/19 11:40	01/07/20 14:55	1
Dissolved Sodium	339				mg/L		12/27/19 11:40	01/07/20 14:55	1
Sodium Adsorption Ratio	3.90				NONE		12/27/19 11:40	01/07/20 14:55	1
Dissolved Potassium	0.000				mg/L		12/27/19 11:40	01/07/20 14:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	48900		2430	729	mg/Kg		12/24/19 17:57	01/07/20 11:11	10
Sodium	455		97.2	24.3	mg/Kg		12/24/19 17:57	01/06/20 16:38	1
Magnesium	4270		97.2	24.3	mg/Kg		12/24/19 17:57	01/06/20 16:38	1
Potassium	1460	F1	486	146	mg/Kg		12/24/19 17:57	01/06/20 16:38	1
Phosphorus	335		48.6	14.6	mg/Kg		12/24/19 17:57	01/06/20 16:38	1
Sulfur	2460	F1	486	146	mg/Kg		12/24/19 17:57	01/06/20 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	5.29	J F2 F1	20.0	2.37	mg/Kg		01/08/20 07:03	01/08/20 12:48	1
Nitrogen, Kjeldahl	240	F1	40.0	31.1	mg/Kg			01/14/20 16:34	1
pH	7.5	HF	0.1	0.1	SU			12/23/19 11:00	1
Nitrogen, Organic	235		1.00	0.777	mg/Kg			01/15/20 14:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	41.2	J B	100	4.00	mg/L			01/01/20 04:40	20
Chloride	89.0	J	200	10.0	mg/L			01/01/20 04:40	20
Sulfate	3680	B	200	20.0	mg/L			01/01/20 04:40	20
Specific Conductance	1840		1.00	1.00	umhos/cm			01/07/20 10:00	1

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: 20B - Sodium Adsorption Ratio

Lab Sample ID: MB 560-170254/1-A
Matrix: Solid
Analysis Batch: 170438

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 170254

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dissolved Calcium	0.0000				mg/L		12/27/19 11:40	01/07/20 14:55	1
Dissolved Magnesium	0.0000				mg/L		12/27/19 11:40	01/07/20 14:55	1
Dissolved Sodium	0.0000				mg/L		12/27/19 11:40	01/07/20 14:55	1
Sodium Adsorption Ratio	0.0000				NONE		12/27/19 11:40	01/07/20 14:55	1
Dissolved Potassium	0.0000				mg/L		12/27/19 11:40	01/07/20 14:55	1

Lab Sample ID: 560-84031-2 DU
Matrix: Solid
Analysis Batch: 170438

Client Sample ID: Laredo Columbia WWTP
Prep Type: Soluble
Prep Batch: 170254

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dissolved Calcium	460		470.0		mg/L		2	
Dissolved Magnesium	76.0		71.00		mg/L		7	
Dissolved Sodium	339		272.0		mg/L		22	
Sodium Adsorption Ratio	3.90		3.100		NONE		23	
Dissolved Potassium	0.000		0.0000		mg/L		NC	

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 160-455094/1-A
Matrix: Solid
Analysis Batch: 455888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 455094

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	23.9	U	95.5	23.9	mg/Kg		12/24/19 17:57	01/06/20 16:11	1
Magnesium	23.9	U	95.5	23.9	mg/Kg		12/24/19 17:57	01/06/20 16:11	1
Potassium	143	U	478	143	mg/Kg		12/24/19 17:57	01/06/20 16:11	1
Phosphorus	14.3	U	47.8	14.3	mg/Kg		12/24/19 17:57	01/06/20 16:11	1
Sulfur	143	U	478	143	mg/Kg		12/24/19 17:57	01/06/20 16:11	1

Lab Sample ID: MB 160-455094/1-A
Matrix: Solid
Analysis Batch: 456053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 455094

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	71.7	U	239	71.7	mg/Kg		12/24/19 17:57	01/07/20 10:58	1

Lab Sample ID: LCS 160-455094/2-A
Matrix: Solid
Analysis Batch: 455888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Phosphorus	96.8	97.79		mg/Kg		101	80 - 120	
Sulfur	968	914.4		mg/Kg		94	80 - 120	

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 160-455094/3-A ^5
Matrix: Solid
Analysis Batch: 455888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	2930	2279		mg/Kg		77.8	56.0 - 111.6
Magnesium	15500	12830		mg/Kg		82.8	64.0 - 110.3
Potassium	24100	19460		mg/Kg		80.8	60.6 - 110.0

Lab Sample ID: LCSSRM 160-455094/3-A ^5
Matrix: Solid
Analysis Batch: 456053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10300	8448		mg/Kg		82.0	65.0 - 109.7

Lab Sample ID: 560-84031-2 MS
Matrix: Solid
Analysis Batch: 455888

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	455		842	1253		mg/Kg		95	75 - 125
Magnesium	4270		842	6146	4	mg/Kg		222	75 - 125
Potassium	1460	F1	842	3909	F1	mg/Kg		291	75 - 125
Phosphorus	335		84.2	431.4		mg/Kg		115	75 - 125
Sulfur	2460	F1	842	2770	F1	mg/Kg		37	75 - 125

Lab Sample ID: 560-84031-2 MSD
Matrix: Solid
Analysis Batch: 455888

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sodium	455		954	1337		mg/Kg		92	75 - 125	6	20
Magnesium	4270		954	5788	4	mg/Kg		159	75 - 125	6	20
Potassium	1460	F1	954	3518	F1	mg/Kg		216	75 - 125	11	20
Phosphorus	335		95.4	421.8		mg/Kg		92	75 - 125	2	20
Sulfur	2460	F1	954	3297		mg/Kg		88	75 - 125	17	20

Lab Sample ID: 560-84031-D-2-B MS ^10
Matrix: Solid
Analysis Batch: 456053

Client Sample ID: 560-84031-D-2-B MS ^10
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	53990		842	46370	4	mg/Kg		-904	75 - 125

Lab Sample ID: 560-84031-D-2-C MSD ^10
Matrix: Solid
Analysis Batch: 456053

Client Sample ID: 560-84031-D-2-C MSD ^10
Prep Type: Total/NA
Prep Batch: 455094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	53990		954	45320	4	mg/Kg		-909	75 - 125	2	20

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 560-170094/1
 Matrix: Water
 Analysis Batch: 170094

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	1.4	U	5.0	1.4	mg/L			12/20/19 09:05	1

Lab Sample ID: LCS 560-170094/2
 Matrix: Water
 Analysis Batch: 170094

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	39.9	32.90		mg/L		82	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 560-170350/3
 Matrix: Water
 Analysis Batch: 170350

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.192	U	1.00	0.192	mg/L			12/31/19 12:26	1
Nitrate as N	0.2040	J	0.500	0.103	mg/L			12/31/19 12:26	1
Sulfate	0.377	U	1.00	0.377	mg/L			12/31/19 12:26	1

Lab Sample ID: LCS 560-170350/4
 Matrix: Water
 Analysis Batch: 170350

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.02		mg/L		100	90 - 110
Nitrate as N	5.00	5.031		mg/L		101	90 - 110
Sulfate	20.0	20.37		mg/L		102	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 600-284704/1-A
 Matrix: Solid
 Analysis Batch: 284760

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 284704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	2.37	U	20.0	2.37	mg/Kg		01/08/20 07:03	01/08/20 12:46	1

Lab Sample ID: LCS 600-284704/2-A
 Matrix: Solid
 Analysis Batch: 284760

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 284704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	500.9		mg/Kg		100	90 - 110

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 560-84031-2 MS
Matrix: Solid
Analysis Batch: 284760

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA
Prep Batch: 284704

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Ammonia	5.29	J F2 F1	500	802.0	F1	mg/Kg		159	90 - 110	

Lab Sample ID: 560-84031-2 MSD
Matrix: Solid
Analysis Batch: 284760

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA
Prep Batch: 284704

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Ammonia	5.29	J F2 F1	500	538.3	F2	mg/Kg		107	90 - 110	39	20	

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 600-284771/10
Matrix: Water
Analysis Batch: 284771

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Kjeldahl	0.432	U	1.00	0.432	mg/L			01/08/20 15:14	1

Lab Sample ID: LCS 600-284771/11
Matrix: Water
Analysis Batch: 284771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Nitrogen, Kjeldahl	10.0	9.112		mg/L		91	90 - 110	

Lab Sample ID: 560-84031-1 MS
Matrix: Water
Analysis Batch: 284771

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Nitrogen, Kjeldahl	0.783	J F1	10.0	9.650	F1	mg/L		89	90 - 110	

Lab Sample ID: 560-84031-1 MSD
Matrix: Water
Analysis Batch: 284771

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Nitrogen, Kjeldahl	0.783	J F1	10.0	8.175	F1	mg/L		74	90 - 110	17	20	

Lab Sample ID: MB 600-285256/10
Matrix: Solid
Analysis Batch: 285256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Kjeldahl	31.1	U	40.0	31.1	mg/Kg			01/14/20 16:32	1

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 600-285256/11
Matrix: Solid
Analysis Batch: 285256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	400	385.5		mg/Kg		96	90 - 110

Lab Sample ID: 560-84031-2 MS
Matrix: Solid
Analysis Batch: 285256

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	240	F1	400	469.2	F1	mg/Kg		57	90 - 110

Lab Sample ID: 560-84031-2 MSD
Matrix: Solid
Analysis Batch: 285256

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	240	F1	400	538.8	F1	mg/Kg		75	90 - 110	14	20

Method: 9045D - pH

Lab Sample ID: LCS 560-170158/2
Matrix: Solid
Analysis Batch: 170158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	5.00	5.0		SU		99	98 - 102

Lab Sample ID: 560-84031-2 DU
Matrix: Solid
Analysis Batch: 170158

Client Sample ID: Laredo Columbia WWTP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5	HF	7.5		SU		0.1	20

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 560-170026/1-A
Matrix: Solid
Analysis Batch: 170350

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.930	J	5.00	0.200	mg/L			01/01/20 01:22	1
Chloride	0.500	U	10.0	0.500	mg/L			01/01/20 01:22	1
Sulfate	3.210	J	10.0	1.00	mg/L			01/01/20 01:22	1

Lab Sample ID: LCS 560-170026/2-A
Matrix: Solid
Analysis Batch: 170350

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	50.0	50.70		mg/L		101	80 - 120
Chloride	100	101.6		mg/L		102	80 - 120

Eurofins TestAmerica, Corpus Christi

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 560-170026/2-A
 Matrix: Solid
 Analysis Batch: 170350

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	200	203.9		mg/L		102	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 560-170269/1
 Matrix: Water
 Analysis Batch: 170269

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	5.00	U	5.00	5.00	mg/L			12/27/19 13:45	1

Lab Sample ID: LCS 560-170269/2
 Matrix: Water
 Analysis Batch: 170269

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3	100	90.00		mg/L		90	85 - 115

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 560-170409/3
 Matrix: Water
 Analysis Batch: 170409

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	1.00	U	1.00	1.00	umhos/cm			01/07/20 09:40	1

Lab Sample ID: LCS 560-170409/4
 Matrix: Water
 Analysis Batch: 170409

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	999	1030		umhos/cm		103	90 - 110

Lab Sample ID: 560-84031-1 DU
 Matrix: Water
 Analysis Batch: 170409

Client Sample ID: Laredo Columbia WWTP
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	1410		1410		umhos/cm		0	20

Lab Sample ID: MB 560-170410/1-A
 Matrix: Solid
 Analysis Batch: 170411

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	1.00	U	1.00	1.00	umhos/cm			01/07/20 10:00	1

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCS 560-170410/2-A
 Matrix: Solid
 Analysis Batch: 170411

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	999	1020		umhos/cm		102	90 - 110

Lab Sample ID: 560-84031-2 DU
 Matrix: Solid
 Analysis Batch: 170411

Client Sample ID: Laredo Columbia WWTP
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	1840		1850		umhos/cm		0.5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-170228/1
 Matrix: Water
 Analysis Batch: 170228

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			12/24/19 14:50	1

Lab Sample ID: LCS 560-170228/2
 Matrix: Water
 Analysis Batch: 170228

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2120		mg/L		94	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 560-170084/1
 Matrix: Water
 Analysis Batch: 170084

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.00	U	2.00	2.00	mg/L			12/20/19 11:15	1

Lab Sample ID: LCS 560-170084/2
 Matrix: Water
 Analysis Batch: 170084

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	200	195.5		mg/L		98	80 - 120

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 560-170181/3
 Matrix: Water
 Analysis Batch: 170181

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.0450	U	0.200	0.0450	mg/L			12/23/19 14:42	1

Eurofins TestAmerica, Corpus Christi

QC Sample Results

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method: SM 4500 NH3 G - Ammonia (Continued)

Lab Sample ID: LCS 560-170181/4
 Matrix: Water
 Analysis Batch: 170181

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.50	2.556		mg/L		102	90 - 110

Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 600-284391/3-A
 Matrix: Water
 Analysis Batch: 284395

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 284391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus	0.0210	U	0.0500	0.0210	mg/L		12/31/19 01:56	12/31/19 06:08	1

Lab Sample ID: LCS 600-284391/4-A
 Matrix: Water
 Analysis Batch: 284395

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 284391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus	0.500	0.5074		mg/L		101	90 - 110

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 560-170028/1
 Matrix: Water
 Analysis Batch: 170028

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L			12/19/19 10:20	1

Lab Sample ID: USB 560-170028/2
 Matrix: Water
 Analysis Batch: 170028

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L			12/19/19 10:20	1

Lab Sample ID: LCS 560-170028/3
 Matrix: Water
 Analysis Batch: 170028

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbonaceous Biochemical Oxygen Demand	198	160.5	*	mg/L		81	84.6 - 115. 4

Accreditation/Certification Summary

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Laboratory: Eurofins TestAmerica, Corpus Christi

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704210-19-23	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
20B	20B	Solid	Dissolved Calcium
20B	20B	Solid	Dissolved Magnesium
20B	20B	Solid	Dissolved Potassium
20B	20B	Solid	Dissolved Sodium
20B	20B	Solid	Sodium Adsorption Ratio
SM 2540C		Water	Total Dissolved Solids
SM5210B CBOD		Water	Carbonaceous Biochemical Oxygen Demand

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
350.1	350.1	Solid	Ammonia
351.2		Solid	Nitrogen, Kjeldahl
Nitrogen,Org		Solid	Nitrogen, Organic

Accreditation/Certification Summary

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19 *
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: City of Laredo
 Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Method	Method Description	Protocol	Laboratory
20B	Sodium Adsorption Ratio	USDA	TAL CC
6010B	Metals (ICP)	SW846	TAL SL
1664A	HEM and SGT-HEM	1664A	TAL CC
300.0	Anions, Ion Chromatography	MCAWW	TAL CC
350.1	Nitrogen, Ammonia	MCAWW	TAL HOU
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL HOU
9045D	pH	SW846	TAL CC
9056	Anions, Ion Chromatography	SW846	TAL CC
Nitrogen,Org	Organic Nitrogen	EPA	TAL HOU
SM 2320B	Alkalinity	SM	TAL CC
SM 2510B	Conductivity, Specific Conductance	SM	TAL CC
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CC
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CC
SM 4500 NH3 G	Ammonia	SM	TAL CC
SM4500 P E-1999	Phosphorus	SM	TAL HOU
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	TAL CC
20B	Preparation, Sodium Absorption Ratio	USDA	TAL CC
3050B	Preparation, Metals	SW846	TAL SL
350.1	Distillation, Ammonia	EPA	TAL HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL CC
SM 4500 P B	Sample Preparation for Total and Ortho Phosphorus	SM	TAL HOU

Protocol References:

- 1664A = EPA-821-98-002
- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- USDA = "USDA Agriculture Handbook 60, section 20B".

Laboratory References:

- TAL CC = Eurofins TestAmerica, Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673
- TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
- TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: City of Laredo
Project/Site: Columbia Bridge WWTP TPDES Application

Job ID: 560-84031-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
560-84031-1	Laredo Columbia WWTP	Water	12/18/19 11:55	12/19/19 08:30	
560-84031-2	Laredo Columbia WWTP	Solid	12/18/19 10:00	12/19/19 08:30	

- 1
- 2
- 3
- 4
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- 8
- 9
- 10
- 11

Client Information Client Contact: Saad Hassoun Company: City of Laredo Address: 5816 Daugherty Avenue City: Laredo State, Zip: TX, 78041 Phone: 956-795-2720(Tel) Email: shassoun@ci.laredo.tx.us Project Name: Columbia Bridge WWTP TPDES Application Site:		Lab PM: Maingot, Lindy E-Mail: lindy.maingot@testamericainc.com Due Date Requested: TAT Requested (days): PO #: Pre-Payment by CC Required WO #: Project #: 56007963 SSO#:		Sampler: Carrit COC No: 560-30733-5058-1 Page: Page 1 of 1 Job #:	
Analysis Requested 2320B, 300 SM4500NH3, G - Local Method 2510B, 2540C, Calcd, 2540D, SMS210B, CBOD_5D 1664A, NP - Local Method 351.2, NP 4500, P, E 350.1, 351.2, NP 9056 20B, SAR, 6010 (Total Cations/Meals (ICP) - 6 reported) 9045D 2510B		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SM4500NH3, G - Local Method 2320B, 300 2510B, 2540C, Calcd, 2540D, SMS210B, CBOD_5D 1664A, NP - Local Method 351.2, NP 4500, P, E 350.1, 351.2, NP 9056 20B, SAR, 6010 (Total Cations/Meals (ICP) - 6 reported) 9045D 2510B		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification Laredo Columbia WWTP Laredo Columbia WWTP		Sample Date 12-18-17 12-18-19		Sample Time 1155 1000	
Sample Type (C=comp, G=grab) G G		Matrix (Water, Solid, Oil, Sludge, etc.) Water Water Solid Solid		Preservation Code: N N S N	
Special Instructions/Note: ALL TEST MUST meet the MAL Standard methods		Total Number of Containers: 2510B 9045D 20B, SAR, 6010 (Total Cations/Meals (ICP) - 6 reported) 9056 350.1, 351.2, NP 4500, P, E 351.2, NP 1664A, NP - Local Method 2510B, 2540C, Calcd, 2540D, SMS210B, CBOD_5D 2320B, 300 SM4500NH3, G - Local Method		Barcode: 560-84031 Chain of Custody	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by: Saad Hassoun Relinquished by: Saad Hassoun Relinquished by:		Date: 12/18/19 - 1400 Date/Time: 12/18/19 8:30 Date/Time:		Method of Shipment:	
Relinquished by:		Date/Time:		Company: ZCCWTP Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.5 DR13 2.3 CP	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Maingot, Lindy		Lab PM: Maingot, Lindy		Carrier Tracking Note:		COC No: 560-20663.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: lindy.maingot@testamericainc.com		State of Origin: Texas		Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Texas		Job #:		560-84031-1	
City: Earth City		State, Zip: MO, 63045		Due Date Requested: 1/2/2020		Analysis Requested:		Preservation Codes:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Email:		TAT Requested (days):		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Columbia Bridge WWTP TPDES Application		Project #: 56007963		Sample Date: 12/18/19		Perform MS/MSD (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - HZSO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 Z - other (specify)	
Site:		Sample Time: 10:00 Central		Sample Type (C=Comp, G=grab)		Total Number of containers		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Type		Matrix			
Laredo Columbia WWTP (560-84031-2)		12/18/19		10:00 Central		Solid		1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica

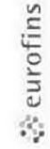
Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Relinquished by: <i>Amula</i>	Date: 12-19-19	Time: 11:00	Company: EPA
Relinquished by:	Date/Time:	Received by: <i>MAH</i>	Date/Time: 12-20-19 11:00
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:		

Method of Shipment: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Company: TestAmerica Laboratories, Inc.		Phone:	Maingot, Lindy	State of Origin:	560-20662.1
Address: 6310 Rothway Street,		E-Mail:	lindy.maingot@testamericainc.com	Texas	Page: Page 1 of 1
City: Houston		Accreditations Required (See note): NELAP - Texas			
State, Zip: TX, 77040		Job #: 560-84031-1			
Phone: 713-690-4444(Tel) 713-690-5646(Fax)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Email:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Project Name: Columbia Bridge WWTP TPDES Application		Analysis Requested			
Site:		Total Number of containers			
Due Date Requested: 1/3/2020		Field Filtered Sample (Yes or No)			
TAT Requested (days):		Perform MS/MSD (Yes or No)			
PO #:		351 2 NP			
WO #:		4500 P E/SM4500 P B			
Project #: 56007963		350 1/Disill_Amonia			
SSOW#:		Nitrogen.Org			
Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wasteoil, B=Toxic, A=Air)	Preservation Code:
12/18/19	11:55 Central	Water			
12/18/19	10:00 Central	Solid			
<p>560-84031 Chain of Custody</p>					
<p>Sample Identification - Client ID (Lab ID)</p> <p>Laredo Columbia WWTP (560-84031-1)</p> <p>Laredo Columbia WWTP (560-84031-2)</p>					
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, V, Other (specify)</p> <p>Primary Deliverable Rank: 2</p>					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>					
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: _____ Date: _____</p> <p>Relinquished by: _____ Date/Time: 12/19/19 17:00 Company: EA</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p>Λ Yes Λ No</p>					
<p>Received by: _____</p> <p>Received by: <i>Anayfe</i> Date/Time: 12/19/19 12:57 Company: EA</p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>					

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.



Sample Receipt Checklist

19 DEC 20 12:57

JOB NUMBER: _____ **Date/Time Received:** _____
UNPACKED BY: UD **CLIENT:** TA-CORPUS
CARRIER/DRIVER: Fedex

Custody Seal Present: YES NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
8542	Y / N	Y / N	0.5	676	+0.1	0.6
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? YES NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: NO YES

Base samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

TX1005 samples frozen upon receipt: YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____ VOA headspace acceptable (5-6mm): YES NO NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? YES NO

COMMENTS:

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-84031-1

Login Number: 84031

List Source: Eurofins TestAmerica, Corpus Christi

List Number: 1

Creator: Olson, Troy

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-84031-1

Login Number: 84031

List Number: 3

Creator: Taylor, Jacquelyn R

List Source: Eurofins TestAmerica, Houston

List Creation: 12/23/19 11:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-84031-1

Login Number: 84031

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/20/19 02:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT H

Sludge Transportation Agreement Tech Rpt. 1.0 Section 9

The South Laredo Wastewater Treatment Facility is authorized to receive, process, and dispose of water treatment plant sludge from the Columbia Bridge Wastewater Treatment Facility. See Attached page from South Laredo WWTF TPDES Permit.

Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2a of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

8. The permittee shall notify the TCEQ Regional Office (MC Region 16) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five (45) days prior to the completion of the Final phase facility on Notification of Completion Form 20007.
9. The permittee is authorized to receive, process, and dispose of the wastewater sludge generated at the Columbia Bridge Wastewater Treatment Plant (WWTP) (Permit No. WQ0010681006), Unitec WWTP (Permit No. WQ0010681005), North Laredo WWTP (Permit No. WQ0010681004), Webb County Detention Center WWTP (Permit No. WQ0012271001), El Cenizo WWTP (Permit No. WQ0013577001), Zacate Creek WWTP (Permit No. WQ0010681002), Penitas WWTP (Permit No. WQ0010681007), and Sombreretillo WWTP (Permit No. WQ0010681008). The permittee shall ensure that the appropriate sludge metals and toxicity characteristic leaching procedure (TCLP) analysis satisfies 30 TAC Chapter 312 rules for disposing of sewage sludge.
10. The permittee must maintain capacity in the South Laredo Wastewater Treatment Facility to treat the supernatant from the Zacate Creek digester. The permittee shall monitor the flow and five-day biochemical oxygen demand (BOD₅) concentration of the supernatant.
11. The aerobic digester, if in use, shall be adequately lined to control seepage. The liner shall meet the requirements in 30 TAC Section 217.203, Design Criteria for Natural Treatment Facilities.

The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above prior to use of the facilities. The certification shall be submitted to the TCEQ Regional Office (MC Region 16) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division.

12. The expansion of this facility to 18 million gallons per day is designed to accommodate wastewater flow currently being treated at another facility (City of Laredo Zacate Creek WWTP, WQ0010681002). The Zacate Creek facility will be closed after its wastewater flow is diverted. The modeling analysis was performed assuming cessation of discharge from the Zacate Creek facility.

ATTACHMENT I

**Cropping Plan Justification
Wksht 3.0 Section 5**

**ATTACHMENT I
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES RENEWAL PERMIT APPLICATION
REQUEST FOR INFORMATION**

CROPPING PLAN JUSTIFICATION

Although the existing permit authorizes land application through on-site irrigation, the land disposal of effluent has never been implemented. As no effluent has been applied, a cropping plan is not needed for the effluent disposal site.

ATTACHMENT J

**Effluent Monitoring Data
Wksht 3.0 Section 9**

**ATTACHMENT J
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION**

EFFLUENT MONITORING DATA

Date	30 Day Avg Flow, MGD	BOD₅, mg/L	TSS, mg/L	pH	Chlorine Residual, mg/L	Total Acres Irrigated
08-2016	0.017	2.0	6.5	6.6	3.7	0
09-2016	0.017	2.0	8.9	7	3.7	0
10-2016	0.018	2.2	4.3	6.9	3.3	0
11-2016	0.016	2.2	3.8	7.2	3.5	0
12-2016	0.015	2.2	6.6	6.8	3.7	0
01-2017	0.020	2.0	4.8	7.1	3.5	0
02-2017	0.014	2.0	6.0	7.2	3.3	0
03-2017	0.010	5.8	5.5	6.4	3.7	0
04-2017	0.015	2.0	4.1	7.1	3.5	0
05-2017	0.014	2.0	4.0	7.1	3.7	0
06-2017	0.016	2.0	4.7	6.6	3.5	0
08-2017	0.019	2.0	6.1	6.7	3.9	0
08-2017	0.020	2.0	4.1	6.9	3.7	0
09-2017	0.014	2.0	4.7	6.5	3.7	0
10-2017	0.017	2.3	4.9	7.1	3.7	0
11-2017	0.011	2.8	4.4	7.6	3.4	0
12-2017	0.014	3.4	5.5	6.9	3.0	0
01-2018	0.020	2.3	4.3	6.6	3.4	0
02-2018	0.016	2.8	4.8	6.6	3.6	0
03-2018	0.013	2.8	6.6	6.3	3.4	0
04-2018	0.013	4.0	12.1	6.3	3.9	0
05-2018	0.013	3.0	4.0	6.5	3.7	0
06-2018	0.011	2.0	3.5	6.1	4.0	0
07-2018	0.007	2.0	8.8	6.1	4.0	0
08-2018	0.018	2.3	10.8	6.8	4.0	0
09-2018	0.016	2.0	6.8	6.3	4.0	0
10-2018	0.028	2.0	6.0	6.4	3.9	0
11-2018	0.034	2.0	5.9	6.8	4.0	0
12-2018	0.030	2.2	3.3	7.9	3.8	0
01-2019	0.034	2.2	6.4	6.8	4.0	0
02-2019	0.030	2.9	7.0	7	4.0	0
03-2019	0.028	2.0	6.8	7	4.0	0
04-2019	0.024	2.3	4.6	6.6	4.0	0
05-2019	0.027	2.0	6.0	6.9	4.0	0
06-2019	0.033	3.2	4.5	7.1	3.9	0
07-2019	0.028	2.0	3.6	7	4.0	0
08-2019	0.028	2.0	9.2	7.1	3.8	0
09-2019	0.034	2.0	5.0	6.8	3.4	0
10-2019	0.035	2.0	3.6	6.5	3.8	0

ATTACHMENT K

**Effluent Parameters Above the MAL
Wksht 6.0 Section 2.C**

**ATTACHMENT K
CITY OF LAREDO
COLUMBIA BRIDGE WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION**

EFFLUENT PARAMETERS ABOVE THE MAL

Pollutant	Concentration	MAL	Units	Date
Aluminum	92.0	2.5	µg/L	9/6/2017
Arsenic	4.0	0.5	µg/L	9/6/2017
Barium	51.0	3	µg/L	9/6/2017
Chromium, Total	5.6	3	µg/L	9/6/2017
Chromium, Tri	5.8	3	µg/L	9/6/2017
Copper, Total	8.8	2	µg/L	9/6/2017
Fluoride	530	500	µg/L	9/6/2017
Lead, Total	2.5	0.5	µg/L	9/6/2017
Nickel, Total	4.1	2	µg/L	9/6/2017
Nitrate-Nitrogen	27,000	100	µg/L	9/6/2017
Selenium, Total	2.1	5	µg/L	9/6/2017
Zinc, Total	55.0	5	µg/L	9/6/2017
Chlorodibromomethane	17.0	10	µg/L	9/6/2017
Chloroform	32.0	10	µg/L	9/6/2017
Dichlorobromomethane	29.0	10	µg/L	9/6/2017
TTHM (Total Trihalomethanes)	81.0	10	µg/L	9/6/2017
Aluminum	140	2.5	µg/L	5/11/2018
Arsenic, Total	1.9	0.5	µg/L	5/11/2018
Barium	68.0	3	µg/L	5/11/2018
Copper	9.7	2	µg/L	5/11/2018
Mercury	0.006	0.005	µg/L	5/11/2018
Nitrate-Nitrogen	45,000	100	µg/L	5/11/2018
Zinc, Total	11.0	5	µg/L	5/11/2018
Chlorodibromomethane	20	10	µg/L	5/11/2018
Chloroform	23	10	µg/L	5/11/2018
Dichlorobromomethane	27	10	µg/L	5/11/2018
Aluminum	77	2.5	µg/L	5/15/2019
Arsenic	1.2	0.5	µg/L	5/15/2019
Barium	79	3	µg/L	5/15/2019
Copper	23	2	µg/L	5/15/2019
Zinc	14	5	µg/L	5/15/2019
TTHM (Total Trihalomethanes)	21	10	µg/L	5/15/2019