

Control Number: 49277



Item Number: 28

Addendum StartPage: 0

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#### DOCKET NO. 49277 2020 FEB 20 PM 2: 46

APPLICATION OF THE CITY OF \$
FORT WORTH FOR A SEWER \$
CERTIFICATE OF CONVENIENCE \$
AND NECESSITY IN TARRANT, \$
DENTON, WISE AND PARKER \$
COUNTIES \$

PUBLIC HT BEFORE THE

**PUBLIC UTILITY COMMISSION** 

**OF TEXAS** 

#### CITY OF FORT WORTH'S FIRST SUPPLEMENT TO AMENDED APPLICATION

COMES NOW, the City of Fort Worth, Texas (the "City"), by and through its undersigned attorneys of record, and files this "First Supplement to Amended Application." In support thereof, the City would show as follows:

#### I. BACKGROUND

On March 1, 2019, the City filed an application with the Public Utility Commission of Texas (the "Commission") to obtain a sewer Certificate of Convenience and Necessity ("CCN") in Tarrant, Denton, Wise, and Parker Counties (the "Application"). The City amended the Application on October 16, 2019 (the "Amended Application"). On December 18, 2019, Commission Staff filed a "Supplemental Recommendation on Administrative Completeness of the Amended Application and Proposed Notice," recommending that the Amended Application be found administratively incomplete, and that the City be ordered to file supplemental information. More specifically, Commission Staff recommended that the City be required to cure deficiencies identified in a December 18, 2019 "PUC Interoffice Memorandum" ("Staff's Memo"), which informally requested the following additional information and documentation:

- "proof that a wastewater permit [application] was submitted to [the Texas Commission on Environmental Quality ('TCEQ")];"
- "a copy of any developer agreements or requests for service within the requested area;"



- "a capital improvement plan, including a budget, estimated timeline and the sources
  of funding for the construction of all facilities necessary to provide service to the
  requested area;"
- "[g]eneral location maps identifying each polygon of the requested areas in reference to the nearest county boundary, city, or town;"
- "[d]etailed maps identifying each polygon of the requested area in reference to verifiable man-made and natural landmarks, such as roads, rivers, and railroads;"
- "[d]igital data for each polygon of the requested area;"
- "the approximate total acreage for the revised requested area;"
- and "a notice description for the location of each polygon making up the entire requested area."

On December 20, 2019, the Administrative Law Judge ("ALJ") issued Order No. 9 in this Docket, finding the Amended Application administratively incomplete, and ordering the City to provide the supplemental information requested in Staff's Memo on or before January 20, 2020. On January 21, 2020, the City timely filed an "Unopposed Motion for Extension of Time to Supplement the Application." The ALJ issued Order No. 10 on January 22, 2020, granting the extension, and requiring the City to supplement the Amended Application in accordance with Staff's Memo on or before February 20, 2020. Therefore, this pleading is timely filed.

<sup>&</sup>lt;sup>1</sup> Because the Commission was not open for business on January 20, 2020, 16 Texas Administrative Code § 22.4(a) dictates that the filing period designated by the ALJ "runs until the end of the next day on which the [C]ommission is open for business," i.e., January 21, 2020.

#### II. SUPPLEMENT TO AMENDED APPLICATION

In accordance with Order Nos. 9 and 10, the City hereby supplements its Amended Application with information and documentation responsive to the requests in Staff's Memo. Specifically, the City submits the following:

#### A. Commission Staff's Requests for Additional Application Content

The first request for information in Staff's Memo asks that the City provide "proof that a wastewater permit [application] was submitted to TCEQ." In response, attached hereto as <a href="Mittachment A">Attachment A</a> are the "Notice[s] of Receipt of Application and Intent to Obtain Water Quality Permit" issued by the TCEQ for proposed Texas Pollutant Discharge Elimination System ("TPDES") Permit No. WQ0015668001, which would authorize the discharge of treated wastewater from the City's proposed Mary's Creek Water Reclamation Facility.\_Additionally, the City is already authorized to discharge treated wastewater from its existing Village Creek Water Reclamation Facility under existing TPDES Permit No. WQ0010494013, and a copy of that permit included here as Attachment B.

The second request for information in Staff's Memo seeks a copy of any "developer agreements or requests for service within the requested area." In response, the City submits two sets of documents, attached hereto as <a href="Attachments C">Attachments C</a> and <a href="D.">D.</a> <a href="Attachment C">Attachment C</a> contains "Pre-Development Conference Requests," which pertain to the requested area labeled by the City as "Area 3." Pre-Development Conferences with the City are the first step in the overall development process. Submitting a request for a Pre-Development Conference, which requires developers to attach an initial site plan, begins the process of coordinating with the City to uncover potential development issues, reach a common understanding, and streamline the development process.

The other documents responsive to the second request in Staff's Memo, contained in Attachment D, includes copies of "developer agreements" and other records demonstrating the City's prior investment in regional and/or oversized infrastructure to serve the area requested by the Amended Application. Most of the attached "developer agreements" are entitled "community facilities agreements" ("CFAs"). A CFA is a contract between the City and a developer, governing the construction of public infrastructure funded entirely or in part by the private developer. By requiring the construction of regional and/or oversized facilities, rather than facilities intended only to serve the contracting developer's property, CFAs obviate the need for the City to approve, construct, and/or replace infrastructure on an ad hoc, development-by-development basis. Said another way, CFAs provide the City a proactive means to ensure that it can meet future service needs because infrastructure installed under a CFA is purposefully designed to serve not only the property that is the subject of the CFA, but also subsequent development in surrounding and/or adjacent areas.

Those surrounding and/or adjacent areas are the areas contemplated by this Amended Application. To be clear, with the exception of certain Master Plan projects to serve Area 4, these oversized facilities are constructed, installed, and operational. For Commission Staff's convenience, please see the table below, indicating which "developer agreements" provided in Attachment D pertain to each of the five (5) "Areas" requested by the City. These documents, and others like them, may also be found using the City's online public records search tool, available at: <a href="https://publicdocuments.fortworthtexas.gov/CSODOCS/Welcome.aspx?repo=City-Secretary&dbid=0">https://publicdocuments.fortworthtexas.gov/CSODOCS/Welcome.aspx?repo=City-Secretary&dbid=0</a>.

Requested Area	City Contract Number(s) of Related Development Agreement(s)
1	37048, 50406, and 51988
2	27991, 32042, and 36995
3	29020, 29091, 31607, 33490, 41470, 50672, and 52889
4	While a need for service in Area 4 is not demonstrated by a "developer agreement," it will be served by Project No. 42 under the City's 2012 Wastewater Master Plan. Need for service in Area 4 is also demonstrated by Attachments E and F.
5	26152

Finally, the third request for information outlined in Staff's Memo asks for a capital improvement plan, including a budget, and an estimated timeline and the sources of funding for the construction of all facilities necessary to provide service to the requested area. In response, the City directs Commission Staff to Attachment E, which contains excerpts from the City's 2019 Comprehensive Plan concerning population trends and planned land uses, which also demonstrate a need for service in requested Areas 1-5. The City also submits Attachment F, which includes relevant portions of the City's "capital improvement plan," including budgetary information, estimated timelines, and funding sources. The City's entire 5-Year Capital Plan Fiscal 2018-2022 available Improvement for Years at: http://fortworthtexas.gov/budget/fy2018/CIP-improvement/. Lastly, the City provides Attachment G, which contains selected Opinions of Probable Cost from the City's 2012 Wastewater Master Plan.

#### B. Commission Staff's Requests for Additional Mapping Content

Staff's Memo also requested that the City provide revised mapping content to cure deficiencies identified with its previously-submitted maps of the requested area. Specifically, Commission Staff requested:

• "[g]eneral location maps identifying each polygon of the requested areas in reference to the nearest county boundary, city, or town;"

- "[d]etailed maps identifying each polygon of the requested area in reference to verifiable man-made and natural landmarks, such as roads, rivers, and railroads;"
- "[d]igital data for each polygon of the requested area;"
- "the approximate total acreage for the revised requested area;"
- and "a notice description for the location of each polygon making up the entire requested area."

In response to those information requests, the City provides the following:

Attachment H: Oversized map identifying each polygon of the requested area.

Attachment I: General location maps identifying each polygon of the requested CCN Areas in reference to the nearest county boundary, city, or town. Each map includes a key map labeling each requested area, and corresponds to the detailed maps provided in Attachment J and notice descriptions provided below.

Attachment J: Detailed maps identifying each polygon of the requested area in

reference to verifiable man-made and natural landmarks, such as roads, rivers, and railroads. Each detailed map corresponds to the key map labeling of each requested CCN Area found on the

general location maps in Attachment I.

Attachment K: A cd-rom containing digital data for each polygon of the requested

CCN Area, provided as a single polygon record, in a shapefile

(SHP) format. The label for each polygon of the requested CCN

Area corresponds to the key maps provided in Attachments I and J.

Additionally, in light of this revised digital data, the City now clarifies that the total acreage of the requested sewer CCN area is approximately 26,800 acres.

Further, for Part G, Question 33 of the Amended Application, the City provides the following notice descriptions for the location of each polygon making up the requested Areas:

Requested Area	Related Notice Descriptions
Area 1, Polygon(s) A–B	The requested area is located approximately 20 miles from downtown Fort Worth, Texas, and is generally bounded on the north by Harriet Creek; on the east by the BNSF Railroad; on the south by the Tarrant and Denton county line; and on the west by the Denton and Wise county line and County Road 4923. The requested area includes approximately 3,355 total acres and 0 current customers.
Area 2, Polygon(s) C–E	The requested area is located approximately 13 miles from downtown Fort Worth, Texas, and is generally bounded on the north by Peden Road; on the east by Business Highway 287; on the south by Boat Club Road; and on the west by Morris Dido Newark Road. The requested area includes approximately 1,547 total acres and 0 current customers.
Area 3, Polygon(s) F–I	The requested area is located approximately 13 miles from downtown Fort Worth, Texas, and is generally bounded on the north by White Settlement Road; on the east by the Fort Worth city limits; on the south by Farm Road 1187; and on the west by the boundary of Fort Worth's extraterritorial jurisdiction. The requested area includes approximately 21,338 total acres and 0 current customers.
Area 4, Polygon(s) J–M	The requested area is located approximately 7 miles from downtown Fort Worth, Texas, and is generally bounded on the north by Overton Ridge Drive; on the east by South Hulen Street; on the south by Oakmont Boulevard; and on the west by Bryant Irvin Road. The requested area includes approximately 231 total acres and 0 current customers.
Area 5, Polygon N	The requested area is located approximately 10 miles from downtown Fort Worth, Texas, and is generally bounded on the north by the City of Everman city limits and Shelby Road; on the east by Rendon Road; on the south by McPherson Road; and on the west by Race Street. The requested area includes approximately 328 total acres and 0 current customers.

#### III. CONCLUSION

The City of Forth Worth respectfully requests that the Commission approve its Amended Application and grant all other and further relief to which it may be entitled.

Respectfully submitted,

LLOYD GOSSELINK ROCHELLE & TOWNSEND, P.C.

816 Congress Ave., Suite 1900 Austin, Texas 78701 (512) 322-5800 (512) 472-0532 (Fax)

DAVID J. KLEIN State Bar No. 24041257

MARIS M. CHAMBERS State Bar No. 24101607

ATTORNEYS FOR THE CITY OF FORT WORTH

#### **CERTIFICATE OF SERVICE**

I hereby certify that a copy of the foregoing document was transmitted by fax, hand-delivery and/or regular, first class mail on this 20th day of February, 2020 to the parties of record.

Maris M. Chambers

# Attachment A Notice[s] of Receipt of Application and Intent to Obtain Water Quality Permit

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

#### PROPOSED PERMIT NO. WQoo156680001

APPLICATION. City of Fort Worth, 200 Texas Street, Fort Worth, Texas 76102, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0015668001 (EPA I.D. No. TX0138444) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 15,000,000 gallons per day. The domestic wastewater treatment facility is located at 11091 Chapin Road, Fort Worth, in Tarrant County, Texas 76108. The discharge route is from the plant site to Mary's Creek; thence to Clear Fork Trinity River. TCEQ received this application on March 23, 2018. The permit application is available for viewing and copying at Fort Worth City Hall, Water Department, 200 Texas Street, Fort Worth, Texas. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. http://www.tceq.texas.gov/assets/public/hb610/index.html?lat=32.7312&lng=-

http://www.tceq.texas.gov/assets/public/hb610/index.html?lat=32.7312&lng=-97.53&zoom=13&type=r

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application.** The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision

and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at <a href="www.tceq.texas.gov/about/comments.html">www.tceq.texas.gov/about/comments.html</a>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address, and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Fort Worth at the address stated above or by calling Ms. Stacy Walters at 817-392-8203.

Issuance Date: May 11, 2018

### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



## AMENDED NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

#### PROPOSED PERMIT NO. WQqq15668qq1

APPLICATION. City of Fort Worth, 200 Texas Street, Fort Worth, Texas 76102, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0015668001 (EPA I.D. No. TX0138444) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 15,000,000 gallons per day. The domestic wastewater treatment facility is located at 11091 Chapin Road, Fort Worth, in Tarrant County, Texas 76108. The discharge route is from the plant site to Mary's Creek; thence to Clear Fork Trinity River. TCEQ received this application on March 23, 2018. The permit application is available for viewing and copying at Fort Worth City Hall, Water Department, 200 Texas Street, Fort Worth, Texas. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application.

http://www.tceq.texas.gov/assets/public/hb610/index.html?lat=32.7312&lng=-97.53&zoom=13&type=r

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application.** The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision

and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <a href="www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at <a href="www.tceq.texas.gov/about/comments.html">www.tceq.texas.gov/about/comments.html</a>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address, and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Fort Worth at the address stated above or by calling Ms. Stacy Walters at 817-392-8203.

Issuance Date: May 30, 2018

# Attachment B Village Creek Water Reclamation Facility TPDES Permit No. WQ0010494013

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



#### APPROVAL OF

# THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PRETREATMENT PROGRAM SUBSTANTIAL MODIFICATION FOR

PERMIT No. WQ0010494013

EPA ID. No. TX0047295

On this day the City of Fort Worth's proposed substantial modification to their Pretreatment Program is approved and shall be incorporated, without changes, into the Texas Pollutant Discharge Elimination System Permit No. WQ0010494013. The following treatment work facilities will be subject to the requirements of the pretreatment program: TPDES Permit No. WQ0010494013.

This approval is in accordance with 30 Texas Administrative Code Chapter 315.

Signed,

Stephani Ergenen Penlin	•	
Bulliani primer I min	July 18, 2018	
Executive Director	Approval Date	



TPDES PERMIT NO. WQ0010494013 [For TCEQ office use only - EPA I.D. No. TX0047295]

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087

This is a renewal that replaces TPDES Permit No. WQ0010494013 issued on October 27, 2014.

#### PERMIT TO DISCHARGE WASTES

under provisions of Section 402 of the Clean Water Act and Chapter 26 of the Texas Water Code

City of Fort Worth

whose mailing address is

1000 Throckmorton Street Fort Worth, Texas 76102

is authorized to treat and discharge wastes from the Village Creek Water Reclamation Facility, SIC Code 4952

located at 4500 Wilma Lane, City of Fort Worth, in Tarrant County, Texas 76012

to Lower West Fork Trinity River in Segment No. 0841 of the Trinity River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of issuance.

ISSUED DATE: July 18, 2018

Stephonic brywen Plulue For the Commission

#### INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through seventeen months and thirty days from the date of issuance, the permittee is authorized to discharge subject to the following effluent limitations: The annual average flow of effluent shall not exceed 166 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 256,250 gallons per minute (gpm).

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg. mg/l (lbs/day)	7-day Avg. mg/l	Daily Max. mg/l	Single Grab mg/l	Report Daily Measurement Frequency	Avg. & Daily Max. Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	<b>Totalizing Meter</b>
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (9,691)	11	17	25	One/day	Composite
Total Suspended Solids	15 (20,767)	25	40	60	One/day	Composite
Ammonia Nitrogen April – November December - March	2 (2,769) 4 (5,538)	6 7	10 10	15 15	One/day One/day	Composite Composite
Malathion*	Report (Report)	N/A	Report	N/A	One/month	Composite
E. coli, colony forming units or most probable number per 100 ml**	63	N/A	200	N/A	Five/week	Grab

<sup>\*</sup>See Other Requirements, Item No. 7, page 43.

- 2. The effluent shall contain a chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l chlorine residual and shall monitor chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
- 3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample.

4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

- 5. Effluent monitoring samples shall be taken at the following location(s): CBOD<sub>5</sub>, TSS, NH<sub>3</sub>-N, Dissolved Oxygen (DO), bacteria, malathion, and pH shall be taken after the final treatment unit. Chlorine residual shall be taken after obtaining a 20-minute detention time in the chlorination basins and prior to dechlorination. Flow monitoring shall be conducted after the chlorination basins. (See Attachment C.)
- 6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored once per day by grab sample (See Other Requirements, Item No. 8, page 43).
- 7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

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<sup>\*\*</sup>See Other Requirements, Item No. 9, page 43.

#### FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the eighteen months from the date of issuance and lasting through date of expiration, the permittee is authorized to discharge subject to the following effluent limitations: The annual average flow of effluent shall not exceed 166 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 256,250 gallons per minute (gpm).

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg. mg/l (lbs/day)	7-day Avg. mg/l	Daily Max. mg/l	Single Grab mg/l		Avg. & Daily Max. Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (9,691)	11	17	25	One/day	Composite
Total Suspended Solids	15 (20,767)	25	40	60	One/day	Composite
Ammonia Nitrogen April – November December - March Malathion*	2 (2,769) 4 (5,538) Report (Report)	6 7 N/A	10 10 Report	15 15 N/A	One/day One/day One/month	Composite Composite Composite
E. coli, colony forming units or most probable number per 100 ml**	63	N/A	200	N/A	Five/week	Grab

<sup>\*</sup>See Other Requirements, Item No. 7, page 43.

- 2. The effluent shall contain a chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l chlorine residual and shall monitor chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
- 3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample.
- 4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
- 5. Effluent monitoring samples shall be taken at the following location(s): CBOD<sub>5</sub>, TSS, NH<sub>3</sub>-N, Dissolved Oxygen (DO), bacteria, malathion, and pH shall be taken after the final treatment unit. Chlorine residual shall be taken after obtaining a 20-minute detention time in the chlorination basins and prior to dechlorination. Flow monitoring shall be conducted after the chlorination basins. (See Attachment C.)
- 6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored once per day by grab sample (See Other Requirements, Item No. 8, page 43).
- 7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

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<sup>\*\*</sup>See Other Requirements, Item No. 9, page 43.

#### EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 101

1. During the period beginning upon the date of issuance and lasting through the date of expiration, whenever the instantaneous flows to the facility headworks equal or exceed 255 MGD, the permittee is authorized to discharge from internal outfall 101 directly to the facility's disinfection units.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg. mg/l (lbs/day)	7-day Avg. mg/l	Daily Max. mg/l	Single Grab mg/l	Report Daily Avg. & Measurement Frequency	Daily Max. Sample Type
Flow, MGD*	Report	N/A	Report	N/A	One/day	Recorder
Biochemical Oxygen Demand (5-day)**	N/A (N/A)	45	N/A	N/A	One/day	Composite
Total Suspended Solids**	N/A (N/A)	45	N/A	N/A	One/day	Composite

<sup>\*</sup>When discharging.

2. Samples taken in compliance with the monitoring requirements specified for the discharge from internal outfall 101 shall be taken at the discharge from the high-rate physical/chemical treatment prior to commingling with effluent from the facility's biological treatment units.

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<sup>\*\*</sup>Report 7-day average.

#### DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

#### 1. Flow Measurements

- a. Annual average flow the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) the highest 2-hour peak flow for any 24-hour period in a calendar month.

#### 2. Concentration Measurements

- a. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.
  - The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.
- e. Bacteria concentration (E. coli or Enterococci) Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
- g. Daily maximum loading (lbs/day) the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

#### 3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

- b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

#### MONITORING AND REPORTING REQUIREMENTS

#### 1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, a monthly effluent report shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Effective December 21, 2016, monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

#### 2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

#### 3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period

of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

#### 4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

#### 5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

#### 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

#### 7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEO. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
  - i. Unauthorized discharges as defined in Permit Condition 2(g).
  - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
  - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
- 9. Changes in Discharges of Toxic Substances
  - All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:
  - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that

discharge will exceed the highest of the following "notification levels":

- i. One hundred micrograms per liter (100  $\mu$ g/L);
- ii. Two hundred micrograms per liter (200  $\mu$ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500  $\mu$ g/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
- iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
- iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. Five hundred micrograms per liter (500 µg/L);
  - ii. One milligram per liter (1 mg/L) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

#### 10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

- 11. All POTWs must provide adequate notice to the Executive Director of the following:
  - a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
  - b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
  - c. For the purpose of this paragraph, adequate notice shall include information on:
    - i. The quality and quantity of effluent introduced into the POTW; and
    - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

#### PERMIT CONDITIONS

#### 1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the

Executive Director, it shall promptly submit such facts or information.

- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of this permit;
  - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of

- wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 7.075 (relating to Administrative Penalties), 7.101 7.111 (relating to Civil Penalties), and 7.141 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

#### 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

#### 4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534

(relating to New Sources and New Dischargers); or

- ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
- iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

#### 5. Permit Transfer

a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

#### 6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

#### 7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

#### 8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

#### 9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

#### 10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

#### 11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

#### b. This notification must indicate:

- i. the name of the permittee and the permit number(s);
- ii. the bankruptcy court in which the petition for bankruptcy was filed; and
- iii. the date of filing of the petition.

#### **OPERATIONAL REQUIREMENTS**

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§ 319.21 319.29 concerning the discharge of certain hazardous metals.
- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

#### 7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not

confidential in 30 TAC §§ 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words confidential business information on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

- 8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
  - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 169) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and

- related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
- Domestic wastewater treatment plants shall be operated and maintained by sewage plant
  operators holding a valid certificate of competency at the required level as defined in 30 TAC
  Chapter 30.
- 10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
- 11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
  - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Environmental Cleanup Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Registration, Review, and Reporting Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
  - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
    - i. Volume of waste and date(s) generated from treatment process;
    - ii. Volume of waste disposed of on-site or shipped off-site;

- iii. Date(s) of disposal;
- iv. Identity of hauler or transporter;
- v. Location of disposal site; and
- vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

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#### **SLUDGE PROVISIONS**

The permittee is authorized to dispose of sludge at a Texas Commission on Environmental Quality (TCEQ) authorized land application site or co-disposal landfill.

This provision does not authorize the permittee to land apply Class B sludge on property owned, leased or under the direct control of the permittee.

This provision authorizes Marketing and Distribution of Class A or AB sewage sludge. This provision authorizes land application of Class A or AB sewage sludge on City-owned property (Attachment A). This provision authorizes the permittee to dispose of sludge at the City-owned dedicated disposal site located approximately one mile north of the Village Creek Wastewater Treatment Plant (Attachment B).

# SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

# A. General Requirements

- The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC §
  312 and all other applicable state and federal regulations in a manner that protects
  public health and the environment from any reasonably anticipated adverse effects due
  to any toxic pollutants that may be present in the sludge.
- 2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
- 3. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

# **B.** Testing Requirements

1. Sewage sludge shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division and the Regional Director (MC Region 4) within seven (7) days after failing the TCLP Test. The report shall

contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Registration, Review, and Reporting Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 4) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30<sup>th</sup> of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

2. Sewage sludge shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C.

TABLE 1

<u>Pollutant</u>	<b>Ceiling Concentration</b>
	(Milligrams per kilogram)*
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

<sup>\*</sup> Dry weight basis

#### 3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B pathogen requirements.

a. For sewage sludge to be classified as Class A with respect to pathogens, the density of fecal coliform in the sewage sludge be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met.

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information.

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB with respect to pathogens, the density of fecal coliform in the sewage sludge be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met.

<u>Alternative 2</u> - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%.

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information.

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB sewage sludge may be classified a Class A sewage sludge if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B criteria for

sewage sludge.

#### Alternative 1

- A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

<u>Alternative 3</u> - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a

- single location, except as provided in paragraph v. below;
- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

<u>In addition</u>, the following site restrictions must be met if Class B sludge is land applied:

- i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge.
- v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
- vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of sewage sludge.
- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
- ix. Land application of sludge shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

# 4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- Alternative 1 The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been

treated in either an aerobic or anaerobic treatment process.

### Alternative 8 -

The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

#### Alternative 9 -

- i. Sewage sludge shall be injected below the surface of the land.
- ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

#### Alternative 10-

- i. Sewage sludge applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When sewage sludge that is incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

# C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure - annually (TCLP) Test
PCBs - annually

All metal constituents and fecal coliform or Salmonella sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

Amount of sewage sludge (*) metric tons per 365-day period	Monitoring Frequency
o to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15.000 or greater	Once/Month

(\*) The amount of bulk sewage sludge applied to the land (dry wt. basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC  $\S$  312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

#### SECTION II.

REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

#### A. Pollutant Limits

#### Table 2

Cumulative Pollutant Loading
Rate
(pounds per acre)*
36
35
2677
1339
268
15
Report Only
375
89
2500

# Table 3

	Monthly Average Concentration
<u>Pollutant</u>	(milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

<sup>\*</sup>Dry weight basis

# **B.** Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B pathogen reduction requirements as defined above in Section I.B.3.

#### C. Management Practices

- 1. Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
- 2. Bulk sewage sludge not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
- 3. Bulk sewage sludge shall be applied at or below the agronomic rate of the cover crop.
- 4. An information sheet shall be provided to the person who receives bulk sewage sludge sold or given away. The information sheet shall contain the following information:
  - a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.
  - b. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instruction on the label or information sheet.
  - c. The annual whole sludge application rate for the sewage sludge application rate for the sewage sludge that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

#### **D. Notification Requirements**

- 1. If bulk sewage sludge is applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk sewage sludge is proposed to be applied. The notice shall include:
  - a. The location, by street address, and specific latitude and longitude, of each land application site.
  - b. The approximate time period bulk sewage sludge will be applied to the site.
  - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk sewage sludge.
- 2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

#### E. Record keeping Requirements

The sludge documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information at

the facility site and/or shall be readily available for review by a TCEQ representative for a period of <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B sludge, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- A description of how the management practices listed above in Section II.C are being met.
- 5. The following certification statement:
  - "I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
  - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
  - b. The location, by street address, and specific latitude and longitude, of each site on which sludge is applied.
  - c. The number of acres in each site on which bulk sludge is applied.
  - d. The date and time sludge is applied to each site.

- e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
- f. The total amount of sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

# F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 4) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30<sup>th</sup> of each year the following information. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
- 3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
- 4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
- 5. Toxicity Characteristic Leaching Procedure (TCLP) results.
- PCB concentration in sludge in mg/kg.
- 7. Identity of hauler(s) and TCEQ transporter number.
- 8. Date(s) of transport.
- 9. Texas Commission on Environmental Quality registration number, if applicable.
- 10. Amount of sludge disposal dry weight (lbs/acre) at each disposal site.
- 11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B sludge, include information on how site restrictions were met.

- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.
- 16. Amount of sludge transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
  - a. The location, by street address, and specific latitude and longitude.
  - b. The number of acres in each site on which bulk sewage sludge is applied.
  - c. The date and time bulk sewage sludge is applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk sewage sludge applied to each site.
  - e. The amount of sewage sludge (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

# SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill
- B. If the permittee generates sewage sludge and supplies that sewage sludge to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.
- D. Sewage sludge shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division and the Regional Director (MC Region 4) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Registration, Review, and Reporting Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 4) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

- E. Sewage sludge shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

- The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
- 2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

# G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 4) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30<sup>th</sup> of each year the following information. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 3. Annual sludge production in dry tons/year.
- 4. Amount of sludge disposed in a municipal solid waste landfill in dry tons/year.
- 5. Amount of sludge transported interstate in dry tons/year.
- 6. A certification that the sewage sludge meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- 7. Identity of hauler(s) and transporter registration number.
- 8. Owner of disposal site(s).
- Location of disposal site(s).
- 10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

# SECTION IV. REQUIREMENTS APPLYING TO THE SEWAGE SLUDGE SURFACE DISPOSAL SITES.

The City of Fort Worth is authorized to dispose of sludge at the City-owned dedicated land disposal (DLD) site located approximately one mile north of the Village Creek Wastewater Treatment Plant. The dedicated disposal site consists of a 156-acre "Sludge Only" landfill and sludge dewatering/processing equipment. The operation will include the landfilling of digested and dewatered sludge in a series of 60-foot deep, 7-foot diameter pierholes. Disposal practices shall be in accordance with the following requirements:

## A. General Requirements

- The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present.
- 2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
- 3. The permittee shall give 60 days prior notice to the Executive Director of any change planned in the sewage sludge disposal practice.
- 4. Sewage sludge disposal shall not adversely affect a threatened or endangered species listed under the Endangered Species Act, §4 or its designated critical habitat.
- 5. The permittee shall submit a written "closure and post closure plan" to the Executive Director 60 days prior to the date that the active sludge unit closes. The plan shall describe how the sludge unit will be closed and at a minimum, shall include:
  - a. A description of the system used to monitor continuously for methane gas in the air in any structures within the surface disposal site. The methane gas concentration shall not exceed 25% of the lower explosive limit for methane gas for three years after the sewage sludge unit closes; and,
  - b. a discussion of how public access to the surface disposal site will be restricted for three years after the last sludge unit in the surface disposal site closes.

#### **B.** Management Practices

- 1. An active sewage sludge unit located within 60 meters of a fault that has displacement in Holocene time is prohibited from receipt of sewage sludge and must be closed.
- 2. An active sewage sludge unit located in an unstable area is prohibited from receipt of sewage sludge and must be closed.
- 3. An active sewage sludge unit located in a wetland, except as provided in a permit issued pursuant to section 402 or 404 of the CWA is prohibited from receipt of sewage sludge and must be closed.
- 4. An active surface disposal sludge unit shall not restrict the flow of the 100-year flood nor

be located within the 100-year floodway.

- 5. Run-off from an active sludge unit shall be collected and disposed in accordance with discharge permit requirements and any other applicable requirements. The runoff collection system for an active sludge unit shall have the capacity to handle runoff from the 25-year storm.
- 6. A food crop, feed crop, or a fiber crop shall not be grown on a surface disposal site.
- 7. Animals shall not be grazed on a surface disposal site.
- 8. Public access shall be restricted on the active surface disposal site and for three years after the site closes.
- 9. When a cover is placed on an active surface disposal site, the concentration of methane gas in air in any structure within the surface disposal site shall not exceed 25 percent of the lower explosive limit for methane gas during the period that the sewage sludge unit is active. The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the lower explosive limit for methane gas during the period that the sewage sludge unit is active. Monitoring shall be continuous.
- 10. Placement of sewage sludge on an active sludge unit shall not contaminate an aquifer. This shall be demonstrated through one of the following:
  - (a) Results of a groundwater monitoring program developed by a qualified groundwater scientist.
  - (b) A certification by a qualified groundwater scientist may be used to demonstrate that sewage sludge placed on an active sewage unit does not contaminate an aquifer.
    - The certification or the report on the groundwater monitoring program shall be submitted to the Texas Commission on Environmental Quality, Water Quality Division, Municipal Permitting Team (MC 148) and the Region Office (MC Region 4) prior to 90 days after permit issuance.
- 11. Sludge is to be applied so that soils can dry sufficiently between applications to allow the passage of equipment, so that application does not create leachate or run-off from the DLD, and so that the operation is managed to provide adequate aeration of soils. Sludge application shall be terminated when the ground is frozen below the plow line. Sludge shall not be applied during rainstorms or during periods in which surface soils are water-saturated.
- 12. DLD site shall be operated in a manner to prevent public health nuisances.

# C. Testing Requirements

- 1. Sewage sludge shall be tested at the frequency shown below in C(6) for PCBs. Any sludge exceeding a concentration of 50 mg/Kg shall not be surface disposed.
- 2. Methane Gas Control within a Structure on Site

When cover is placed on an active surface disposal site, the methane gas concentration in the air in any structure within the site shall not exceed 25% of the lower explosive limit

(LEL) for methane gas during the period that the disposal site is active. When a final cover is placed on a sludge unit at closure, the concentration of methane gas in air in any structure within the surface disposal site shall not exceed 25% of the lower explosive limit for methane gas for three years after the sludge unit closes.

3. Methane Gas Control at Property Line

When cover is placed on active surface disposal site, the concentration of methane gas in the air at the property line of the surface disposal site shall not exceed the LEL for methane gas during the period that the disposal site is active. When a final cover is placed on a sludge unit at closure, the concentration of methane gas in the air at the property line of the surface disposal site shall not exceed the LEL for methane gas for three years after the sludge unit closes.

- Sewage sludge shall be tested annually in accordance with the method specified in 40 CFR Part 261, Appendix II (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ. Sewage sludge failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the Registration, Review and Reporting Division of the Texas Natural Resource Conservation Commission and the Region Manager of the appropriate TCEQ field office within 7 days after failing the Toxicity Characteristic Leaching Procedure Test (TCLP). The report shall contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Registration, Review and Reporting Division (MC 126), Texas Natural Resource Conservation Commission, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEO Regional Office (MC Region 4) and Water Quality Compliance Team (MC 224) of the Enforcement Division by September 1 of each year.
- 5. The permittee shall monitor soil and sewage sludge as follows:

# Monitoring Frequency

Parameter	Sludge	Soil-Sludge Mixture*
pH (S.U.) Arsenic (mg/kg) Cadmium (mg/kg) Chromium (mg/kg) Copper (mg/kg) Lead (mg/kg) Mercury (mg/kg) Molybdenum (mg/kg)	quarterly quarterly quarterly quarterly quarterly quarterly quarterly quarterly quarterly	quarterly semi-annual semi-annual semi-annual semi-annual semi-annual semi-annual semi-annual
	quarterly	semi-annual
Nickel (mg/kg)	quarterly	_
Selenium (mg/kg)	quarterly	semi-annual

Zinc (mg/kg)	quarterly	semi-annual
Potassium (mg/kg)	quarterly	semi-annual
Total Phosphorus(mg/kg)	quarterly	quarterly
Extractable Phosphorus (mg/kg)	quarterly	quarterly
Ammonia Nitrogen(mg/kg)	monthly	quarterly
Total Nitrogen (mg/kg)	monthly	quarterly
Nitrate Nitrogen (mg/kg)	monthly	quarterly
Total PCBs (mg/kg)	annually	annually

- \* The permittee shall obtain three soil samples from injection site. Soil samples shall be obtained from representative locations in which sludge is applied. (a minimum of 2 locations). Each soil boring shall be separated into three samples according to the following depth zones: 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below the ground surface. Each zone shall be thoroughly mixed to obtain a composite of the borings, per site, prior to being analyzed. Sampling and analysis shall be performed in accordance to methods outlined in 30 TAC §312.7.
- 6. The permittee shall maintain the seven existing groundwater monitoring wells outside the slurry wall. Groundwater from each monitoring well shall be analyzed according to the Groundwater Monitoring Schedule found below:

# Groundwater Monitoring Schedule

Parameter	Units	Sample Frequency
Groundwater Elevation	MSL, feet	One/3 months
Total Nitrogen	mg/l	One/3 months
Nitrate Nitrogen	mg/l	One/3 months
Ammonia Nitrogen	mg/l	One/3 months
Phosphorus	mg/l	One/3 months
Potassium	mg/l	One/3 months
Cadmium	mg/l	One/3 months
Lead	mg/l	One/3 months
Zinc	mg/l	One/3 months
Copper	mg/l	One/3 months
Nickel	mg/l	One/3 months
pН	Standard Units	One/3 months
Polychlorinated		
Biphenlys	mg/l	One/year

# D. Pathogen Control

- a. Pathogen reduction. Sewage sludge (other than domestic septage). The pathogen reduction requirements in Section 312.82(a) of this title (relating to Pathogen Reduction) or the Class B pathogen reduction requirements in Section 312.82(b)(1)(A) and (b)(2) of this title shall be met when sewage sludge is placed on an active sludge unit, unless the vector attraction reduction requirements in Section 312.83(b)(11) of this title (relating to Vector Attraction Reduction) is met.
- b. Pathogen reduction. Domestic septage. The pathogen reduction requirement in Section 312.82(c)(2) of this title shall be met when domestic septage is placed on an active sludge unit.

#### E. Vector Attraction Reduction Requirement

- a. Vector attraction reduction. Sewage sludge (other than domestic septage). One of the alternatives for vector attraction reduction in Section 312.83(b)(1)-(11) of this title shall be met when sewage sludge is placed on an active sludge unit.
- b. Vector attraction reduction. Domestic septage. The vector attraction reduction requirements in Section 312.83(b)(12) of this title shall be met when domestic septage is placed on an active sludge unit.

#### F. Monitoring Requirements

- 1. Methane Gas in covered structures on site (see C.2.)- Continuous
- 2. Methane Gas at property line (see C.3.)- Continuous
- 3. Toxicity Characteristic Leaching Procedure (TCLP) Test Once/Year
- 4. The permittee shall monitor the parameters listed in C(5) above at the specified frequencies.
- 5. The permittee shall monitor ground water at the frequencies specified in C(6) above.
- 6. The permittee shall monitor for pathogen control in accordance with D above at a frequency of once per quarter.
- 7. The permittee shall monitor for vector attraction reduction in accordance with E above at a frequency of once per quarter.

#### G. Recordkeeping Requirements

- Recordkeeping requirements The permittee shall develop the following information
  and shall retain the information for five years. The sludge documents will be retained at
  the same location as other TCEQ records and they shall be made readily available to the
  TCEQ upon request.
  - a. The distance of the surface disposal site from the property line and the concentration (mg/Kg) in the sludge of each pollutant listed above in C(5).
  - b. The following certification statement found in 30 TAC §312.67.
    - "I certify, under penalty of law, that the management practices in 30 TAC §312.64; pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirements in 30 TAC §312.83(b) have been met. This determination has been made under my direction and supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information used to determine that the (specific requirements for pathogen and vector attraction reduction) have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."
  - c. A description of how Class B pathogen reduction requirements are met, or whether sewage sludge placed on a surface disposal site is covered with soil or other material

at the end of each operating day.

- d. A description of how the vector attraction reduction requirements are met.
- e. Results of a groundwater monitoring program developed by a qualified ground-water scientist, or a certification by a qualified groundwater scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.

# H. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 4) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year the following information:

- 1. Amount of sludge disposal dry weight (tons) at the DLD site.
- 2. The total amount of sludge disposed during a 365-day period.
- 3. Date(s) of disposal.
- 4. Toxicity Characteristic Leaching Procedure Test: Pass/Fail.
- 5. Measurements of the required parameters listed in C(5) above for sludge. Also, this information shall be submitted to the TCEQ Regional Office (MC Region 4) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year.
- 6. Measurements of the required parameters for ground water listed in C(6) above and a map showing the location of the monitoring wells. Also, this information shall be submitted to the TCEQ Regional Office (MC Region 4) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year.
- 7. Certification statement required in Section G(1)(b) above.
- 8. Narrative description explaining how the management practices in 30 TAC Section 312.64 are met.
- 9. Identity of hauler(s) and TCEQ transporter number.
- 10. PCB concentration in sludge in mg/Kg.
- 11. Owner of disposal site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

# SECTION V. REQUIREMENTS FOR MARKETING AND/OR DISTRIBUTING SLUDGE AND SLUDGE DERIVED MATERIALS.

The permittee is authorized to Market and Distribute sewage sludge pursuant to Class A Notification Authorization No. 720001 issued on March 24, 2003.

# A. General Requirements

The methods of distribution, marketing, handling, storage, and transportation of sewage sludge must be in accordance with 30 TAC Chapter 312 and Title 40 of the Code of Federal Regulations Part 503.

Marketing and distribution of sewage sludge for land application shall meet the pollutant levels in Title 30 of the Texas Administrative Code (30 TAC) Subsection 312.43(b)(3), the pathogen reduction requirements in 30 TAC §312.82(a), and one of the vector attraction reduction requirements in 30 TAC §312.83(b)(1) through (8).

# **B.** Testing Requirements

The only action covered by this section is the marketing and distribution of sewage sludge meeting the criteria below for the purpose of land application. Only sewage sludge from the City of Fort Worth can be distributed for land application under this authorization. All terms of the Sludge Provisions, Sections I and II of this permit must be followed. All sludge or derived materials sold or given away in bulk, bag or other container must meet the metal concentrations in the table below, the pathogen reduction requirements in 30 TAC §312.82(a), and one of the vector attraction reduction requirements in 30 TAC §312.83(b)(1) through (8).

#### Metal Limits in Sludge on a Dry Weight Basis

#### Table 3

	Monthly Average Concentration
<u>Pollutant</u>	(milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

# C. Record Keeping Requirements

Records must be maintained as indicated in 30 TAC §312.4(b) and §312.47(a).

#### D. Reporting Requirements

An annual report must be submitted to the Municipal Permits Team (MC 148) of the Water Quality Division of the Texas Commission on Environmental Quality (TCEQ) and to the TCEQ regional office on or before September 30<sup>th</sup> of each year and must cover the previous period of August 1<sup>st</sup> through July 31<sup>st</sup>. The report must be mailed to the following address: TCEQ Municipal Permits Team (MC 148), P.O. Box 13087, Austin Texas, 78711-3087 and to the TCEQ Regional Office (MC Region 4). The report must include all appropriate information as required in 30 TAC §312.4(b)(4) and §312.48 including the following:

- 1. name, address, and telephone number of all persons who are receiving sewage sludge directly from the permittee;
- 2. the quantity of sludge, in dry tons, given to each recipient;
- 3. the metals listed in Section V.B., the TCLP and PCBs, and nutrient analysis if performed during the reporting period;
- 4. a detailed description of marketing, distribution and storage activities performed under this authorization; and
- 5. the list the methods used for achieving pathogen reduction and vector attraction reduction as required by this permit.

# E. Notification Requirements

The permittee shall inform TCEQ through a letter whenever the sludge is given to a new recipient directly by the permittee. The notification letter shall include:

- 1. the recipient's name, address, phone number, the number of acres, and the longitude and latitude of the site that is intended to be used for land application of sewage sludge;
- 2. the total quantity of sludge proposed to be given to this recipient per year;
- 3. the authorization number and sludge source name;
- 4. the signature and date of signature by an authorized representative of the permittee; and
- 5. the complete name and title, telephone number and the address of the person signing the letter.

# SECTION VI. REQUIREMENTS APPLYING TO SLUDGE TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge that is transported to another wastewater treatment facility or facility that further processes sludge. These provisions are intended to allow transport of sludge to facilities that have been authorized to accept sludge. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge, nor do they limit the ability of the receiving facility to request additional testing or documentation.

# A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
- 2. Sludge may only be transported using a registered transporter or using an approved pipeline.

# **B.** Record Keeping Requirements

- 1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
  - a. the amount of sludge transported;
  - b. the date of transport;
  - c. the name and TCEQ permit number of the receiving facility or facilities;
  - d. the location of the receiving facility or facilities;
  - e. the name and TCEQ permit number of the facility that generated the waste; and
  - f. copy of the written agreement between the permittee and the receiving facility to accept sludge.
- 2. For sludge transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge transported.
- The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

# C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 4) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30<sup>th</sup> of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. the annual sludge production;
- 3. the amount of sludge transported;
- 4. the owner of each receiving facility;
- 5. the location of each receiving facility; and
- 6. the date(s) of disposal at each receiving facility.

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# OTHER REQUIREMENTS

- 1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and, in particular, 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.
  - This Category A facility must be operated by a chief operator or an operator holding a Category A license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.
- 2. The facility is not located in the Coastal Management Program boundary.
- 3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.
- 4. The permittee is hereby placed on notice that this permit may be reviewed by the TCEQ after the completion of any new intensive water quality survey on Segment No. 0841 of the Trinity River Basin and any subsequent updating of the water quality model for Segment No. 0841 to determine if the limitations and conditions contained herein are consistent with any such revised model. The permit may be amended, pursuant to 30 TAC § 305.62, as a result of such review. The permittee is also hereby placed on notice that effluent limits may be made more stringent at renewal based on, for example, any change to modeling protocol approved in the TCEQ Continuing Planning Process.
- 5. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
- 6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, 5/week may be reduced to 3/week. A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148). The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more

frequent measurement schedule if necessary to protect human health or the environment.

7. Permit compliance/noncompliance determinations will be based on the minimum analytical level (MAL) for toxic organic and inorganic parameters. Effluent concentrations measured as less than the MAL are deemed to be compliant with the permit limitations. When an analysis of an effluent sample for the following parameter(s) results in a measurement of less than the MAL, that parameter shall be reported as "< (MAL value)" and this shall be interpreted as a value of zero (o) for compliance purposes.

Parameter MAL (mg/l)

Malathion 0.0001

- 8. The effluent shall contain a minimum dissolved oxygen concentration of 6 mg/l. Measurements shall be made either immediately before the cascade structure or after the cascade structure but before entering the receiving stream. When the cascade structure is inundated, the effluent shall contain a minimum dissolved oxygen concentration of 4 mg/l measured prior to the cascade structure.
- Effluent monitoring samples for bacteria shall be taken following dechlorination at Box U, when the cascade structure is inundated as a result of high river stages. (See Attachment C).
- 10. The permittee shall achieve compliance with the final permitted effluent limitations required on Page 2a of the permit in accordance with the following schedule for the construction of treatment facilities. The permittee shall achieve compliance with the final permitted effluent limitations for pH required on Page 2a of the permit in accordance with the following schedule for the construction of treatment facilities.

ACTIVITY
Obtain Plans & Specs Approval\*

Commence Construction\*\*

Complete Construction\*\*

No later than 8 months after permit issuance
No later than 14 months after permit issuance
No later than 14 months after permit issuance
No later than 18 months after permit issuance
No later than 18 months after permit issuance

The permittee shall submit quarterly progress reports in accordance with the following schedule. The requirement to submit quarterly progress reports shall expire 18 months from the date of permit issuance.

<sup>\*</sup>Plans and Specs approval is required regardless whether the facility is modified or not to meet the more stringent effluent limits for pH.

<sup>\*\*</sup>If the permittee notifies the TCEQ Wastewater Permitting Section (MC 148), c/o Municipal Permits Team, that it can meet the more stringent effluent limits without additional construction of wastewater treatment units, then this requirement is waived. The notification shall be signed and sealed by a civil or environmental engineer registered in the State of Texas.

# PROGRESS REPORT DATES

January 1 April 1 July 1 October 1

The quarterly progress reports shall include a discussion of the interim requirements that have been completed at the time of the report and shall address the progress towards attaining the water quality-based final effluent limitations included on page 2a for Outfall 001 no later than eighteen months from the date of permit issuance.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. All reports shall be submitted to the TCEQ Regional Office (MC Region 4) and the Water Quality Compliance Monitoring Team of the Enforcement Division (MC 224) of the TCEQ.

- 11. The City of Fort Worth is authorized to utilize the City-owned dedicated sludge disposal (DLD) site for turf grass and forage crop farming until such time as the site is utilized as an active DLD site.
- 12. In addition to the requirements in **Sludge Provisions**, **Section II. and Section V.** of this permit, bulk sewage sludge that is marketed and distributed for land application and the sites authorized for land application of Class A or AB sewage sludge under this permit (See Attachment A) shall be land applied in accordance with the following:
  - a. Sludge must be applied by a method and under conditions that prevent runoff beyond the active application area and that protect the quality of the surface water and the soils in the unsaturated zone.
    - i. Sludge application methods must be designed and implemented with the objective to achieve uniform application over the surface of the land.
    - ii. Where runoff from the active application area is evident, the operator must cease further sludge application until the condition is corrected.
    - iii. The site operator must prevent public health nuisances. Sludge debris must be prevented from leaving the site. Where nuisance conditions exist, the operator must eliminate the nuisance as soon as possible.
    - iv. Land application of sludge shall be in accordance with the following buffer zone requirements:
      - 750 feet from an established school, institution, business, or occupied residential structure; and
      - 2) 50 feet from a public right-of-way and property boundaries.

The buffer zones may be reduced or eliminated if an agreement to that effect is signed by the owners of the established school, institution, business, occupied

- residential structure, or adjacent property and this documentation is provided to the executive director.
- v. The active land application site shall not restrict the flow of the 100-year flood nor be located within the 100-year floodway.
- b. Sludge must not be applied to land that is flooded, frozen or snow-covered to prevent entry of bulk sewage sludge into wetlands or other waters in the State.
- c. Sewage sludge may not be applied during rainstorms or during periods in which surface soils are water-saturated, and when pooling of water is evident on the land application site.
- d. An active land application site location must be selected and the site operated in a manner to prevent public health nuisances and the following management practices shall be met:
  - i. sewage sludge debris must be prevented from blowing or running off site boundaries or into surface waters;
  - ii. and, if necessary or when significant nuisance conditions occur, the operator shall:
    - 1) minimize dust migration from the site and access roadways; and
    - 2) minimize odors through incorporation of sewage sludge into the soil or by taking some other type of corrective action.
- e. The permittee shall develop and implement best management practices (BMPs) to minimize off-site tracking of sewage sludge and sediment during the transport of sewage sludge material to and from the land application site or storage area; and to include at a minimum, removing tracked material, to the extent practicable, by the end of each day of operation at the site and either returning it to the site or otherwise disposing of it properly. The documentation of the BMPs shall be retained by the operator and be readily available for review by a TCEO representative.
- f. All vehicles and equipment used for the transport of sewage sludge for land application, disposal and storage shall be constructed, operated and maintained to prevent the loss of liquid or solid materials during transport. Sludge must be transported to and from each land application site and storage area in a covered container with the covering firmly secured at the front and back.
- g. The permittee shall post a sign that is visible from a road or sidewalk that is adjacent to the premises on which the land application unit is located stating that a sewage sludge beneficial land application site is located on the premises. The sign shall be posted three days prior to and fourteen days after the commencement of the land application of sewage sludge and shall include the operator name, telephone number, the classification of sewage sludge and the TCEQ authorization number. In the event of reasonably unforeseen circumstances such as weather conditions or equipment failure that necessitate a change in a planned land application site, the required sign may be posted on the day on which sewage sludge land application commences. Records of any deviation of the posting requirements listed above and associated reasons shall be

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retained by the operator and be readily available for review by a TCEQ representative.

- h. Staging of sewage sludge may only occur for a maximum of seven calendar days per location within the beneficial land application site. Up to an additional 14 days of staging sewage sludge will be allowed with the prior approval of the appropriate TCEQ regional office, for reasons such as but not limited to application area flooding, saturated soils, or frozen soils. The operator shall stage the sewage sludge away from odor receptors in order to:
  - i. prevent off-site dust migration from the staging area; and
  - ii. prevent nuisance odors.

Written records of the location of each staging area and timeframe in which sewage sludge was staged shall be shall be retained by the operator and be readily available for review by a TCEQ representative.

- 13. Land application of sludge must be handled by a method that is consistent with the permittee's Adverse Weather and Alternative Plan. This plan shall detail procedures to address times when the sludge and septage cannot be applied to the land application site due to adverse weather or other conditions such as wind, precipitation, field preparation delays, and access road limitations.
- 14. On a case-by-case basis, the Commission or Executive Director may impose requirements for the use or disposal of sewage sludge in addition to or more stringent than the requirements in 30 TAC chapter 312 or conditions contained in this permit, when necessary to protect public health and the environment from any adverse effect of a pollutant in the sewage sludge. The Executive Director also has the authority to require a co-permittee or separate permit for any third party that processes or handles the sewage sludge.
- 15. The permittee shall implement the Odor Control Plan (The Plan) approved by the TCEQ on July 16, 2015 to address nuisance odors related to its sewage sludge operations authorized by this permit.
  - a. The Plan shall contain the following:
    - i. Schedule of Activities: The Plan shall include the following schedule of activities and expected timeframe for completion of each activity.
      - 1) Identifying nuisance odor sources;
      - 2) Development of odor control options;
      - 3) Evaluation and selection of odor control mechanisms; and
      - 4) Implementation of corrective action(s).
    - ii. Scope: The Plan shall consider all aspects related to sewage sludge operations; including:
      - 1) incoming raw sewage to the Village Creek Wastewater Treatment Plant;
      - 2) sewage treatment at the Village Creek Wastewater Treatment Plant;

- anaerobic digestion of waste sewage sludge at the Village Creek Wastewater Treatment plant, including processing of high strength industrial/commercial waste;
- 4) polymer addition, dewatering, lime stabilization, and storage at the dewatering Facility;
- 5) transport of dewatered and stabilized sewage sludge;
- 6) land application of sewage sludge; and
- 7) any other activities related to the sewage sludge operation as applicable to odor.

Revisions or future changes to the any part of The Plan require written prior approval from the Executive Director.

- b. <u>Recordkeeping and Notification</u>: During Plan implementation and lasting until the Final Report described in Section 13.d. is submitted and approved by the Executive Director, the permittee shall comply with the following recordkeeping and notification requirements. All required records shall be retained by the operator and be readily available for review by a TCEQ representative.
  - i. Daily Odor Log. The permittee shall maintain a daily odor log recording the following information at the sewage sludge processing site and all land application sites on those days on which sewage sludge is applied:
    - weather conditions wind direction, wind velocity, temperature, % chance of precipitation;
    - 2) narrative description of sewage sludge odor and characteristics:
    - sewage sludge moisture levels at the processing location and land application sites;
    - 4) odor meter readings, including the date and time of each reading, of the sewage sludge at the processing location and land application sites; and
    - 5) a site map identifying field locations, dates and times of sewage sludge applications and the location of the odor meter readings at land application sites.
  - ii. TCEQ Regional Office Notification: The permittee shall submit a monthly schedule of planned land application sites to the Regional Office. The schedule must be received by the 21st calendar day of the month preceding land application. The permittee shall notify the Regional Office for any changes in the schedule of planned land application sites. The schedule shall include the following site information:
    - 1) location;
    - 2) identification of the person receiving the sewage sludge;
    - 3) land application acreage; and
    - 4) item iii. considerations below, which influenced site selections.

- iii. Site Schedules: Land application site scheduling shall take the following considerations into account:
  - 1) seasonal effects on sludge odors;
  - 2) proximity of adjacent odor receptors;
  - 3) population density;
  - 4) previous odor complaints; and
  - 5) the number and frequency of applications on the same land application site.
- iv. Complaint Records: The permittee shall maintain a record of odor complaints (time, date, location, and sludge source to the extent disclosed in the complaint) received by the permittee from all sources, including the TCEQ Regional Office, and include what actions were taken by the permittee to address each complaint.
- c. Quarterly Reporting: The permittee shall submit quarterly progress reports which include a discussion of:
  - i. activities completed at the time of the report;
  - ii. compliance or non-compliance with approved Plan provisions;
  - iii. progress towards identifying and controlling nuisance odors; and
  - iv. any reports of non-compliance with The Plan shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled activity.

Quarterly progress reports shall be submitted to the Wastewater Permitting Section (MC 148) and the Regional Office (MC Region 4) on the 1<sup>st</sup> of January, April, July and October of each year. Copies of Daily Odor Logs, Region Office Notifications, Site Scheduling Considerations, and Complaint Records for the three-month period ending 30 days prior to the due date of the quarterly progress reports shall be submitted with the quarterly progress reports.

d. <u>Final Report</u>: Upon successful implementation of the Plan, the permittee shall submit a final report detailing the odor source identification process and odor controls used to achieve the cessation of nuisance odors. The Executive Director may provide written concurrence that the permittee demonstrated compliance with the Odor Control Plan and what additional steps, if any, are needed to make such demonstration.

Failure to comply with any Proposal, Recordkeeping and Notification, Quarterly Reporting or Final Report provisions above may result in revocation or additional restrictions on the permittee's sewage sludge authorization.

# BIOMONITORING REQUIREMENTS

#### CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

- 1. Scope, Frequency, and Methodology
  - a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.
  - b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:
    - 1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.
    - 2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 30%, 40%, 53%, 71%, and 96% effluent. The critical dilution, defined as 96% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
  - 1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

- and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.
- 2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

# 2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
  - 1) a control mean survival of 80% or greater;
  - a control mean number of water flea neonates per surviving adult of 15 or greater;
  - a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
  - a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
  - 5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;
  - a percent minimum significant difference of 47 or less for water flea reproduction; and
  - 7) a percent minimum significant difference of 30 or less for fathead minnow growth.

#### b. Statistical Interpretation

- 1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.
- 2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

- 3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.
- 5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control.
- The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.
- 7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.
- 8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

#### c. Dilution Water

- Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
  - a) substitute a synthetic dilution water that has a pH, hardness, and

- alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
- b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
  - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
  - b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and
  - c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.
- 3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

# d. Samples and Composites

- The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.
- 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate

days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

#### 3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
  - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
  - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
  - Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
  - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
  - 1) For the water flea, Parameter TLP3B, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
  - 2) For the water flea, Parameter TOP3B, report the NOEC for survival.
  - 3) For the water flea, Parameter TXP3B, report the LOEC for survival.
  - 4) For the water flea, Parameter TWP3B, enter a "1" if the NOEC for reproduction is less than the critical dilution; otherwise, enter a "0."
  - 5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.
  - 6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.
  - 7) For the fathead minnow, Parameter TLP6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

- 8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.
- 9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.
- 10) For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."
- 11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.
- 12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.
- d. Enter the following codes for retests only:
  - 1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
  - 2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

#### 4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction in the control.

- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.
- b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.
  - If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.
- c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.
- d. If the two retests are performed due to a demonstration of significant

- sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.
- e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

## 5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
  - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
  - Sampling Plan The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall

- conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
- 3) Quality Assurance Plan The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
  - results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
  - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
  - any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;
  - results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
  - any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
  - any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

# TABLE 1 (SHEET 1 OF 4)

# BIOMONITORING REPORTING

# CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

		Date Time	Date Time
Dates and Times Composites			TO:
Collected	No. 2 FROM:		TO:
	No. 3 FROM:_		TO:
Test initiated:		am/pm _	date
Dilution w	vater used:	Receiving water	Synthetic Dilution water
	NUMBER OF YOU	NG PRODUCED PER	ADULT AT END OF TEST

# Percent effluent REP 0% 30% 40% 53% 71% 96% A В C D E F G Н I J Survival Mean Total Mean CV%\* **PMSD**

<sup>\*</sup>Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

## TABLE 1 (SHEET 2 OF 4)

#### CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

CRITICAL DILUTION (96%): \_\_\_\_\_\_ YES \_\_\_\_\_ NO

#### PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	30%	40%	53%	71%	96%
24h						
48h						
End of Test						

9	Fish	er'c	Eva	ct T	rest.

Is the mean survival at test en	ıd significantly	rless than t	the control	l survival	for	the %
effluent corresponding to leth	ality?					

CRITICAL DILUTION (96%): \_\_\_\_\_YES \_\_\_\_NO

- 3. Enter percent effluent corresponding to each NOEC\LOEC below:
  - a.) NOEC survival = \_\_\_\_\_% effluent
  - b.) LOEC survival = \_\_\_\_\_% effluent
  - c.) NOEC reproduction = \_\_\_\_\_\_% effluent
  - d.) LOEC reproduction = \_\_\_\_\_\_ % effluent

# TABLE 1 (SHEET 3 OF 4)

# **BIOMONITORING REPORTING**

# FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times	No. 1 FROM		Time		TO:		
Composites Collected	No. 2 FROM	[:			TO:		
	No. 3 FROM	[:			TO:		
Test initiated:			aı	m/pm _		······································	date
Dilution water	er used:	Rece	eiving w	ater _		Synthetic di	lution water
	FA'	ΓΗEAD M	INNOW	GROW	TH DATA		
Effluent	Average 1	Average Dry Weight in replicate chambers			ambers	Mean Dry	CV%*
Concentration	A	В	С	D	E	Weight	
0%							
30%							
40%							
53%							
71%							
96%							
PMSD							
Bonferroni a	ation = standard ocedure or Stee djustment) or t dry weight (grow the % effluent of CRITICAL D	el's Many-( -test (with wth) at 7 decorrespond	One Ran Bonferr lays sign ling to s	k Test ( oni adj ificantl ignifica	ustment) a y less than nt nonletha	s appropriat the control's al effects?	e:

# TABLE 1 (SHEET 4 OF 4)

#### BIOMONITORING REPORTING

# FATHEAD MINNOW GROWTH AND SURVIVAL TEST

# FATHEAD MINNOW SURVIVAL DATA

Effluent	Регсе	nt Surviv	al in repl	icate ch	ambers	pers Mean percent survival			CV%*
Concentration	Α	В	С	D	E	24h	48h	7 day	0.70
0%									
30%									
40%									
53%									
71%									
96%									

<sup>\*</sup> Coefficient of Variation = standard deviation x 100/mean

2.	Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

CRITICAL DILUTION	(96%):	YES	NO

- 3. Enter percent effluent corresponding to each NOEC\LOEC below:
  - a.) NOEC survival = \_\_\_\_\_\_% effluent
  - b.) LOEC survival = \_\_\_\_\_% effluent
  - c.) NOEC growth = \_\_\_\_\_% effluent
  - d.) LOEC growth = \_\_\_\_\_% effluent

#### 24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

#### 1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
  - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
  - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

#### 2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

# c. Samples and Composites

- 1) The permittee shall collect one composite sample from Outfall 001.
- 2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of o-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
- 5) The effluent sample shall not be dechlorinated after sample collection.

#### 3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
  - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
  - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes for the appropriate parameters for valid tests only:
  - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
  - 2) For the fathead minnow, Parameter TIE6C, enter a "o" if the mean

survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

- d. Enter the following codes for retests only:
  - 1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
  - 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

#### 4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

# 5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
  - 1) Specific Activities The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity

characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

- Sampling Plan The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
- Quality Assurance Plan The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
  - 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
  - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
  - any data and substantiating documentation that identifies the pollutant

and source of effluent toxicity;

- 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
- 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
- any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.
  - The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.
- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

# TABLE 2 (SHEET 1 OF 2)

# WATER FLEA SURVIVAL

# GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

#### PERCENT SURVIVAL

Time	Pon	Percent effluent							
Time Rep		о%	6%	13%	25%	50%	100%		
	A								
	В								
0.4	С								
24h	D								
	E								
	MEAN								

Enter percent effluent	corresponding to	the LC50 below:
------------------------	------------------	-----------------

24 hour LC50 = \_\_\_\_\_% effluent

# TABLE 2 (SHEET 2 OF 2)

# FATHEAD MINNOW SURVIVAL

# GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

# PERCENT SURVIVAL

77:	P.o.	Percent effluent											
Time	Rep	o%	6%	13%	25%	50%	100%						
	A												
	В												
0.4	С												
24h	D												
	E												
	MEAN												

En	iter percent	effluant	COTTACT	anding:	ta t	ha I	CEA	امد	O747*
$\mathbf{r}_{\mathbf{H}}$	пет регсещ	. emuem	COTTERD	OHMHE	w	пс г	しつし	ner	UW.

24 hour LC50 = \_\_\_\_\_% effluent

## CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved City of Fort Worth POTW pretreatment program submitted by the permittee. The pretreatment program was approved on July 1, 1984, modified on April 3, 1992, December 20, 2007, and on the issuance of this permit action (Streamlining Rule).

The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

- a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs;
- b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities;
- The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program;
- d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

- (1) Statement of duration (in no case more than five years);
- (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
- (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;
- (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample

- type, based on the applicable general pretreatment standards in 40 CFR Part 403, categorical pretreatment standards, local limits, and State and local law;
- (5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
- (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
- e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2);
- f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi);
- g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program; and
- h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.
- 2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §\$403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

The permittee shall submit to the TCEQ Stormwater & Pretreatment Team (MC 148) of the Water Quality Division, within sixty (60) days of the issued date of this permit, either:

- a written certification that a technical reassessment has been performed, and that the
  evaluation demonstrates that existing technically based local limits (TBLLs) attain
  the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the
  state, are adequate to prevent pass through of pollutants, inhibition of or interference
  with the treatment facility, worker health and safety problems, and sludge
  contamination [Submit the Reassessment Form No. TCEQ-20221]; or
- 2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 [rev. 10/14/05], applicable

state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's Local Limits Development Guidance, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee [according to 40 CFR §122.41(k)].

If after review of the substantial modification submission, the Executive Director determines that the submission does not comply with applicable requirements, including 40 CFR §§403.8 and 403.9, the Executive Director will notify the permittee. According to 40 CFR §403.11(c), the notification will include suggested modifications to bring the substantial modification submission into compliance with applicable requirements, including 40 CFR §§403.8(b) and (f) and 403.9(b). In such a case, revised information will be necessary for the Executive Director to make a determination on whether to approve or deny the permittee's substantial modification submission.

Upon approval by the Executive Director of the substantial modification to this approved POTW pretreatment program, the requirement to develop and enforce specific prohibitions and/or limits to implement the prohibitions and limits set forth in 40 CFR §§403.5(a)(1), (b), (c)(1) and (3), and (d) is a condition of this permit. The specific prohibitions set out in 40 CFR §403.5(b) shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and in 40 CFR Part 122, Appendix D, Table II at least **once per six months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per two months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per two months** on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality-based effluent concentration from the TCEQ's Texas Toxicity Modeling Program (TexTox). Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a representative 24-hour period.

4. The permittee shall prepare annually a list of IUs which, during the preceding twelve (12) months, were in significant noncompliance (SNC) with applicable pretreatment

requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **July** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

In addition, each **July** the permittee shall submit an updated pretreatment program annual status report, in accordance with 40 CFR §§403.12(i) [rev. 10/22/15] and (m), to the TCEQ Stormwater & Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in this section:

- a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:
  - (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code and categorical determination.
  - (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [rev. 10/14/05], then the list must also identify:
    - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR §§ 403.12(e)(1) [rev. 10/22/15] and (3);
    - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
    - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).
  - (3) Control mechanism status.
    - Indicate whether the IU has an effective individual or general control
      mechanism, and the date such control mechanism was last issued, reissued,
      or modified;
    - Indicate which IUs were added to the system, or newly identified, during the
      pretreatment year reporting period;
    - Include the type of general control mechanisms; and
    - Report all NSCIU annual evaluations performed, as applicable.
  - (4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:
    - Total number of inspections performed; and
    - Total number of sampling events conducted.
  - (5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or

operational standards) requirements. Compliance status shall be defined as follows:

- Compliant (C) no violations during the pretreatment year reporting period;
- Non-compliant (NC) one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
- Significant Noncompliance (SNC) in accordance with requirements described above in this section.
- (6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.
- b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.
- c. A report on any interference, pass through, upset, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.
- d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.
- e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.
- f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.
- g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.)
- h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.
- i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective September 1, 2020, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

- 5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:
  - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if the indirect discharger was directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works, and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 1, 2016

#### TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month/yea	r:,	to	·
TPDES Permit No.:	Permittee:	Treatment Plant:	

PRE	<b>TREATM</b>	IENT	PRO	)GRA	M ST	ATUS	REP	ORT	UPI	DAT	ED	INDU	STRL	AL US	ERS <sup>1</sup>	LIST
9		CONTROL MECHANISM						he CA	the CA		C = (	uring t	porting ant, NC	reatme Period C = Nor	ent Yes 14 1comp	liant,
User Name	Code			or NR			Y or N)	ted by 1	à		RI	PORT	S		23	
Industrial Use	SIC or NAICS Code	CIU2	Y/N or NR5	IND or GEN o	Last Action <sup>6</sup>	TBLLs or TBLLs only <sup>7</sup>	New User 3 (Y	Times Inspected by the	Times Sampled	BMR	90-Day	Semi- Annual	Self- Monitoring <sup>8</sup>	NSCIU Certifications	Effluent Limits	Narrative Standards

- 1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.
- 2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).
- 3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.
- The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).
- 5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, e.g. the sector type and BMP description.
- 6 Permit or NSCIU evaluations as applicable.
- According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, e.g. where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; OR the IU is subject only to local limits (TBLLs only), e.g. the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.
- 8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TCEQ-20218a

TPDES Pretreatment Program Annual Report Form

Revised July 2007

# TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

Reporting month/yea	ar:	,to,
TPDES Permit No:	_Permittee: _	Treatment Plant:

<u> </u>	INDUST	RIAL USER D	NVENTORY MO	DIFICATIONS	
FACILITY NAME,	ADD, CHANGE,	IF DELETION:		N OR SIGNIFICA	
ADDRESS AND CONTACT PERSON	DELETE  (Including categorical reclassification to NSCIU or MTCIU)	Reason For Deletion	PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE 9 (In gpd) R = Regulated U = Unregulated T = Total
					_
					<del></del>

_	For NSCIUs.	total flour	augt be given	if regulated	flourished	dataminad
y	FOR MOUTUS.	LULAI HOW II	ust be given	. II regulateu	HOW IS HOL	determmed.

TCEQ-20218b TPDES Pretreatment Program Annual Report Form

Revised July 2007

TPDES Pr	etre	atm	ent Pr	ogran	ı An	nual	Rep	ort	For	m for I	info	rcen	nent	Action	s Taken
R	epoi	rting	mont	h/yea	r:			,		to _				,	
TPDES Pe	rmit	No:			_Pe	rmit	tee:_			_Treat	men	it Pla	ant:		·
Overall SN Reporting V	User Name    Value   V														
	N	lonc	ompli	ant In	dus	trial	Use	rs - ]	Enfo	orceme	nt A	ctio	ns T	aken	
	Nat	ure o	f Viola	tion 11	Nu				ns	d (Do large)				turned or N)	
	Effluent Limits	Reports	NSCLU Certifications	Narrative Standards	VOV	A.O.	Civil	Criminal	Other	Penalties Collecte not Include Surch	Y or N	Date Issued	Date Due	Current Status Re to Compliance: (Y	Comments
						<u> </u>									
								_							·
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	Pi Ro N	eport arrat ecify	ting Re ive Sta a sepa	equiren indard rate nu	nents s imbe	s [W	END	B-PS	NC]			·	Ū		·
TCEQ-2021	8c	TPL	ES Pro	etreatr	nent	Prog	gram	Anr	ual	Report	For	m	1	Revised	July 2007

# TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results<sup>1</sup>

Reporting mon	th/year:,	to	
TPDES Permit No.:	Permittee:	Treatment Plant:	

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS												
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)			Average Influent % of the MAHL <sup>2</sup>	Daily Average Effluent Limit (µg/L) 3	Effluent Measured in µg/L (Actual Concentration or < MAL) 4					
	· · · · · · · · · · · · · · · · · · ·	Date	Date	Date	Date	o , t with the graph of the state of the sta		Date	Date	Date	Date	
METALS, CYANIDE A	ND PHENOI	s										
Antimony, Total							DAMES A FE 開始等的					
Arsenic, Total												
Beryllium, Total												
Cadmium, Total												
Chromium, Total												
Chromium (Hex)	•											
Chromium (Tri)5												
Copper, Total												
Lead, Total	\											
Mercury, Total												
Nickel, Total												
Selenium, Total												
Silver, Total												
Thallium, Total												
Zinc, Total												
Cyanide, Available <sup>6</sup>							-					
Cyanide, Total												

PRETREATMEN	T PROGRAM	INF	LUEN	IT AN	D EFF	FLUENT I	MONITOR	UNG	RESU	LTS	
POLLUTANT	MAHL, if Applicable in lb/day	Measured in µg/L			Average Influent % of the MAHL <sup>2</sup>	Daily Average Effluent Limit (µg/L) 3	1	easure	uent d in µg ncentra IAL) 4		
是 可以通过操作。		Date	Date	Date	Date	1 may 1 1 2 2	地域學	Date	Date	Date	Date
Phenols, Total	,					'					
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile							· · · · · · · · · · · · · · · · · · ·				
Benzene											
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene										·	
Chlorodibromomethane							See TTHM				
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM				
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											
1,3-Dichloropropylene							- 54 				
Ethyl benzene							# # # # 7 / / / / / / / / / / / / / / /				
Methyl Bromide											