AFIN: 46-00237

AUTHORIZATION TO DISCHARGE WASTEWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. § 1251 et seq.),

City of Texarkana North Texarkana WWTP

is authorized to discharge treated municipal wastewater from a facility located as follows: 8301 Sanderson Lane, Texarkana, AR 71854 in Miller County. Towards west on Interstate 30, take exit 2 and turn right on Four States Fair Pkwy for 0.8 mile. Turn left on Sugar Hill Road for 0.3 mile, then turn right on Sanderson Lane for 0.8 mile. The facility entrance is on the left.

Facility Coordinates: Latitude: 33° 30' 11.09" N; Longitude: 94° 00' 48.32" W

Receiving stream: McKinney Bayou, thence to the Red River in Segment 1B of the Red River

Basin.

The permitted outfall is located at the following coordinates:

Outfall 001: Latitude: 33° 30' 13.70" N; Longitude: 94° 01' 17.40" W

Discharge shall be in accordance with effluent limitations, monitoring requirements, and other conditions set forth in this permit. Per Part III.D.10, the permittee must re-apply 180 days prior to the expiration date below for permit coverage to continue beyond the expiration date.

Effective Date: November 1, 2020 Expiration Date: October 31, 2025

Robert E. Blanz, Ph.D., P.E.

Associate Director, Office of Water Quality

Division of Environmental Quality

Arkansas Department of Energy and Environment

10/14/2020

Issue Date

AFIN: 46-00237 Page 1 of Part I.A

PART I PERMIT REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001 - treated municipal wastewater.

During the period beginning on the effective date and lasting until the date of expiration, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below as well as Parts II and III. See Part IV for all definitions.

| | Di | ischarge Limitatio | Monitoring Requirements | | | |
|---|--------------------------------------|------------------------|--------------------------|---------------------------|---------------------------|--|
| Effluent Characteristics | Mass (lbs/day, else specified) | (mg/I, else specified) | | Frequency | Sample Type | |
| | Monthly Avg. | Monthly Avg. | 7-Day Avg. | | | |
| Flow | N/A | Report, MGD | 0.95 MGD (Daily Max.) | once/day | totalizing meter | |
| Overflows | Monthly To | otal SSOs (occurre | nces/month) | see comments ¹ | | |
| Overflow Volume | Monthly Total | Volume of SSOs (| (gallons/month) | see con | see comments ¹ | |
| Carbonaceous Biochemical Oxygen Demand (CBOD ₅) | 79.2 | 10 | 15 | three/month | composite | |
| Total Suspended Solids (TSS) | 118.8 | 15.0 | 22.5 | three/month | composite | |
| Ammonia Nitrogen (NH ₃ -N) | | | | | | |
| (April) | 47.5 | 6.0 | 6.1 | three/month | composite | |
| (May – October) | 31.7 | 4.0 | 6.0 | three/month | composite | |
| (November – March) | 47.5 | 6.0 | 9.0 | three/month | composite | |
| Dissolved Oxygen (DO) | | | | | | |
| (May – October) | N/A | 5.0 (Ins | t. Min.) | three/month | grab | |
| (November – April) | N/A | 7.0 (Inst. Min.) | | three/month | grab | |
| Fecal Coliform Bacteria (FCB) | | (colonies/100ml) | | | • | |
| (May – September) | N/A | 200 | 400 | three/month | grab | |
| (October – April) | N/A | 1000 | 2000 | three/month | grab | |
| Total Dissolved Solids (TDS) ² | | | | | - | |
| Interim | Report | Report | Report | once/month | grab | |
| Final | 3,800 | Report | Report | once/month | grab | |
| Sulfates ² | | | | | <u>.</u> | |
| Interim | Report | Report | Report | once/month | grab | |
| Final | 480 | Report | Report | once/month | grab | |
| рН | N/A | Minimum 6.0 s.u. | Maximum 9.0 s.u. | three/month | grab | |

See Condition No. 6 of Part II (SSO Condition). If there are no overflows during the entire month, report "zero" (0).

Oil, grease, or petrochemical substances shall not be present in receiving waters to the extent that they produce globules or other residue or any visible, colored film on the surface or coat the banks and/or bottoms of the waterbody or adversely affect any of the associated biota. There shall be no visible sheen as defined in Part IV of this permit.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples shall be taken after final treatment, prior to the receiving stream.

Interim period for monitoring and reporting shall last three years from the effective date of the permit. Final limits are effective three years after the effective date of the permit.

Page 1 of Part I.B

SECTION B. PERMIT COMPLIANCE SCHEDULE

Compliance with the Final Effluent Limitations for Total Dissolved Solids and Sulfates is required three years after the effective date of the permit. The permittee shall submit progress reports addressing the progress towards attaining the Final Effluent Limitations for the aforementioned parameters according to the following schedule:

ACTIVITY

DUE DATE

Progress Report^{1, 2}
Progress Report^{1, 3}
Achieve Final Compliance^{1, 4}
One (1) year from effective date
Two (2) years from effective date
Three (3) years from effective date

All progress reports must be submitted to the Department at the following address:

Enforcement Branch, Office of Water Quality Division of Environmental Quality Arkansas Department of Energy and Environment 5301 Northshore Drive North Little Rock, AR 72118-5317

or submit electronically via email at water-enforcement-report@adeq.state.ar.us.

- If the permittee is already in compliance with a final permit limit, only documentation demonstrating compliance with the final limit will be required for the progress report.
- If the permittee is not in compliance with the Final Limitations following one (1) year of sampling, the initial Progress Report must detail how the permittee plans to come into compliance with the final limits within the remaining 2 years of the interim period. Options must be provided that were considered along with which option* was selected. Any Best Management Practices (BMPs) that have been instituted to reduce the concentration in the influent must also be discussed. If a study will be performed, a milestone schedule for the study must be provided.
 - * The permittee has the option to undertake any study deemed necessary to meet the final limitations during the interim period. Any additional treatment (including chemical addition) must be approved and construction approval granted prior to final installation.
- The second Progress Report must contain an update on the status of the chosen option from the initial Progress Report. If the facility is not meeting any of the milestones provided in the initial Progress Report, the facility must update the milestone schedule to show how the final limits will be met by the deadline.
- ⁴ A final Progress Report must be submitted no later than 30 days following the final compliance date and include a certification that the final effluent limits were met on the effective date and that the limits are still being met.

AFIN: 46-00237 Page 1 of Part II

PART II OTHER CONDITIONS

- 1. The operator of this wastewater treatment facility shall be licensed as at least Class II by the State of Arkansas in accordance with APC&EC Rule No. 3.
- 2. For publicly owned treatment works, the 30-day average percent removal for Carbonaceous Biochemical Oxygen Demand (CBOD₅) and Total Suspended Solids (TSS) shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR Part 133.102.
- 3. In accordance with 40 CFR Parts 122.62(a)(2) and 124.5, this permit may be reopened for modification or revocation and/or reissuance to require additional monitoring and/or effluent limitations when new information is received that actual or potential exceedance of State water quality criteria and/or narrative criteria are determined to be the result of the permittee's discharge(s) to a relevant water body or a Total Maximum Daily Load (TMDL) is established or revised for the water body that was not available at the time of the permit issuance that would have justified the application of different permit conditions at the time of permit issuance.

4. Other Specified Monitoring Requirements

The permittee may use alternative appropriate monitoring methods and analytical instruments other than as specified in Part I.A of the permit without a major permit modification under the following conditions:

- The monitoring and analytical instruments are consistent with accepted scientific practices.
- The requests shall be submitted in writing to the Permits Branch of the Office of Water Quality of the DEQ for use of the alternate method or instrument.
- The method and/or instrument is in compliance with 40 CFR Part 136 or approved in accordance with 40 CFR Part 136.5.
- All associated devices are installed, calibrated, and maintained to ensure the accuracy of the measurements and are consistent with the accepted capability of that type of device. The calibration and maintenance shall be performed as part of the permittee's laboratory Ouality Assurance/Ouality Control (OA/OC) program.

Upon written approval of the alternative monitoring method and/or analytical instruments, these methods or instruments must be consistently utilized throughout the monitoring period. DEQ must be notified in writing and the permittee must receive written approval from DEQ if the permittee decides to return to the original permit monitoring requirements.

5. Best Management Practices (BMPs), as defined in Part IV.7, must be implemented for the facility along with the collection system to prevent or reduce the pollution of waters of the State from stormwater runoff, spills or leaks, sludge or waste disposal, or drainage from raw sewage. The permittee must amend the BMPs whenever there is a change in the facility or a change in the operation of the facility.

AFIN: 46-00237 Page 2 of Part II

6. Sanitary Sewer Overflow (SSO) Reporting Requirements:

- A. A sanitary sewer overflow is any spill, release or diversion of wastewater from a sanitary sewer collection system including:
 - 1. Any overflow, whether it discharges to the waters of the state or not.
 - 2. An overflow of wastewater, including a wastewater backup into a building (other than a backup caused solely by a blockage or other malfunction in a privately owned sewer or building lateral), even if that overflow does not reach waters of the state.

B. 24-Hour Reporting:

When an SSO is detected – no matter how small – it must be reported within 24 hours of its discovery to DEQ's Water Quality Enforcement by using the online form in paragraph C below (the preferred method), by phone at (501) 682-0638, or by email at ssoadeq@adeq.state.ar.us.

This initial 24-hour report should include the following information:

- 1. Permit Number
- 2. Location of overflow (manhole number or street address)
- 3. The receiving water (if applicable)
- 4. Cause of overflow (if known)
- 5. Estimated volume of overflow so far
- 6. Total duration of the overflow

C. 5-Day Follow-Up Written Web Reporting:

A written report of overflows shall be provided to DEQ within 5 days of the 24-hour oral report. A follow-up written report (5-day report) can be filled-in and submitted on the DEQ Office of Water Quality/Enforcement Branch Web page at:

https://www.adeq.state.ar.us/water/enforcement/sso/submit.aspx?type=s

D. 24-Hour and 5-Day Reporting:

If the 24-hour report submitted includes all of the information requested in the 5-day report described in Paragraph C above, then a follow-up 5-day report is not required.

E. Reporting for All SSOs on DMR:

At the end of the month, total the daily <u>occurrences</u> and <u>volumes</u> from all locations on your system and report this number on the DMR. For counting occurrences, each location on the sanitary sewer system where there is an overflow, spill, release, or diversion of wastewater on a given day is counted as one occurrence. For example, if on a given day overflows occur from a manhole at one location and from a damaged pipe at another location then you should record two occurrences for that day.

AFIN: 46-00237 Page 3 of Part II

7. Contributing Industries and Pretreatment Requirements

A. The following pollutants may not be introduced into the treatment facility:

- 1. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit (°F) or 60 degrees Centigrade (°C) using the test methods specified in 40 CFR 261.21;
- 2. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0 s.u., unless the works is specifically designed to accommodate such discharges;
- 3. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference* or Pass Through**;
- 4. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which will cause Pass Through or Interference with the POTW;
- 5. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 °C (104 °F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;
- 6. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
- 7. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
- 8. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
- B. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act (CWA), including any requirements established under 40 CFR Part 403.
- C. The permittee shall provide adequate notice to the Division of the following:
 - 1. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants; and
 - 2. 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.

AFIN: 46-00237 Page 4 of Part II

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

- * According to 40 CFR 403.3(k), the term *Interference* means a Discharge which, alone or in conjunction with a discharge or discharges from other sources, both:
 - 1. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
 - 2. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the CWA, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.
- ** According to 40 CFR 403.3(p), the term *Pass Through* means a Discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).
- 8. If the 7-day average flow exceeds 0.95 MGD, the permit may be reopened to include additional conditions and/or limitations, as deemed necessary by the Division. The facility status may also be upgraded from Minor municipal to Major municipal.
- 9. Monitoring Frequency Reduction

The permittee may request a one-time monitoring frequency reduction for pollutants listed in Part I, Section A, *Effluent Limitations and Monitoring Requirements*. Any request for a monitoring frequency reduction must be submitted in writing to DEQ, and signed by the Responsible Official, in accordance with Part III.D.11.A of the permit.

The following requirements must be met before a review of the monitoring frequency reduction request will be performed:

- A. Compliance with the permit limits for at least the last two (2) years for the pollutants for which a request has been made for a monitoring frequency reduction;
- B. No operational or design changes have been made to the facility for at least the last two (2) years (or during period of review, if greater than two (2) years), and are not anticipated for the remaining term of this permit.

AFIN: 46-00237 Page 5 of Part II

If the above conditions are met, a detailed review of the DMR data will be performed for the pollutants for which a monitoring frequency reduction has been requested. Compliance with the limits does not guarantee a monitoring frequency reduction will be granted. Data must show that the average concentration of the pollutants in the discharge are less than 75% of the permit limits for a monitoring frequency reduction to be granted.

If a monitoring frequency reduction is granted, the frequency can be reduced by no more than half the rate of the corresponding frequency listed in Part I, Section A, *Effluent Limitations and Monitoring Frequencies*. For example, a monitoring frequency of 4 per month will not be reduced to less than 2 per month. Additionally, the frequency will be no less frequent than monthly.

AFIN: 46-00237 Page 1 of Part III

PART III STANDARD CONDITIONS

SECTION A – GENERAL CONDITIONS

1. **Duty to Comply**

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Water Act and the Arkansas Water and Air Pollution Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; and/or for denial of a permit renewal application. Any values reported in the required Discharge Monitoring Report (DMR) which are in excess of an effluent limitation specified in Part I shall constitute evidence of violation of such effluent limitation and of this permit.

2. Penalties for Violations of Permit Conditions

The Arkansas Water and Air Pollution Control Act provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a fine of not more than twenty-five thousand dollars (\$25,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed ten thousand dollars (\$10,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action.

3. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to the following:

- A. Violation of any terms or conditions of this permit.
- B. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.
- C. A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- D. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.
- E. Failure of the permittee to comply with the provisions of APC&EC Rule No. 9 (Permit fees) as required by Part III.A.11 herein.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

Page 2 of Part III

4. Toxic Pollutants

Notwithstanding Part III.A.3, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under APC&EC Rule No. 2, as amended, or Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitations on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standards or prohibition and the permittee so notified.

The permittee shall comply with effluent standards, narrative criteria, or prohibitions established under APC&EC Rule No. 2, as amended, or Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Civil and Criminal Liability

Except as provided in permit conditions for "Bypass of Treatment Facilities" (Part III.B.4), and "Upset" (Part III.B.5), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of this permit or applicable state and federal statues or regulations which defeats the regulatory purposes of the permit may subject the permittee to criminal enforcement pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 et seq.).

6. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Clean Water Act.

7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

8. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

Page 3 of Part III

9. Severability

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

10. Applicable Federal, State or Local Requirements

Permittees are responsible for compliance with all applicable terms and conditions of this permit. Receipt of this permit does not relieve any operator of the responsibility to comply with any other applicable federal requirements such as endangered species, state or local statute, ordinance or regulation.

11. Permit Fees

The permittee shall comply with all applicable permit fee requirements (i.e., including annual permit fees following the initial permit fee that will be invoiced every year the permit is active) for wastewater discharge permits as described in APC&EC Rule No. 9 (Rule for the Fee System for Environmental Permits). Failure to promptly remit all required fees shall be grounds for the Director to initiate action to terminate this permit under the provisions of 40 CFR Parts 122.64 and 124.5(d), as adopted in APC&EC Rule No. 6 and the provisions of APC&EC Rule No. 8.

SECTION B – OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

- A. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- B. The permittee shall provide an adequate operating staff which is duly qualified to carryout operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit.

2. Need to Halt or Reduce not a Defense

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 this permit. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or discharges or both until the facility is restored or an alternative method of

Page 4 of Part III

treatment is provided. This requirement applies, for example, when the primary source of power for the treatment facility is reduced, is lost, or alternate power supply fails.

3. **Duty to Mitigate**

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment or the water receiving the discharge.

4. **Bypass of Treatment Facilities**

"Bypass" means the intentional diversion of waste streams from any portion of a treatment facility, as defined at 40 CFR 122.41(m)(1)(i).

A. Bypass not exceeding limitation

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.B and 4.C.

B. Notice

- 1. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- 2. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part III.D.6 (24-hour notice).

C. Prohibition of bypass

- 1. Bypass is prohibited and the Director may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notices as required by Part III.B.4.B.
- 2. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part III.B.4.C(1).

Page 5 of Part III

5. **Upset Conditions**

A. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part III.B.5.B of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

- B. Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - 1. An upset occurred and that the permittee can identify the specific cause(s) of the upset.
 - 2. The permitted facility was at the time being properly operated.
 - 3. The permittee submitted notice of the upset as required by Part III.D.6.
 - 4. The permittee complied with any remedial measures required by Part III.B.3.
- C. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

- A. Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State. The Permittee must comply with all applicable state and Federal regulations governing the disposal of sludge, including but not limited to 40 CFR Part 503, 40 CFR Part 257, and 40 CFR Part 258.
- B. Any changes to the permittee's disposal practices described in the Statement of Basis, as derived from the permit application, will require at least 180 days prior notice to the Director to allow time for additional permitting. Please note that the 180 day notification requirement may be waived if additional permitting is not required for the change.

7. **Power Failure**

The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators, or retention of inadequately treated effluent.

SECTION C - MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance.

Page 6 of Part III

Monitoring points shall not be changed without notification to and the approval of the Director. Intermittent discharge shall be monitored.

2. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than +/- 10% from true discharge rates throughout the range of expected discharge volumes and shall be installed at the monitoring point of the discharge.

Calculated Flow Measurement

For calculated flow measurements that are performed in accordance with either the permit requirements or a Division approved method (i.e., as allowed in the *Other Specified Monitoring Requirements* condition under Part II), the +/- 10% accuracy requirement described above is waived. This waiver is only applicable when the method used for calculation of the flow has been reviewed and approved by the Division.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to ensure accuracy of measurements and shall ensure that both calibration and maintenance activities will be conducted. An adequate analytical quality control program, including the analysis of sufficient standards, spikes, and duplicate samples to ensure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. At a minimum, spikes and duplicate samples are to be analyzed on 10% of the samples.

4. Penalties for Tampering

The Arkansas Water and Air Pollution Control Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year or a fine of not more than ten thousand dollars (\$10,000) or by both such fine and imprisonment.

5. Reporting of Monitoring Results

40 CFR 127.11(a)(1) and 40 CFR 127.16(a) require that monitoring reports must be reported on a Discharge Monitoring Reports (DMR) and filed electronically. Signatory Authorities must initially request access for a NetDMR account. Once a NetDMR account is established, access to electronic filing should use the following link https://cdx.epa.gov. Permittees who

AFIN: 46-00237 Page 7 of Part III

are unable to file electronically may request a waiver from the Director in accordance with 40 CFR 127.15. Monitoring results obtained during the previous monitoring period shall be summarized and reported on a DMR dated and submitted no later than the 25th day of the month, following the completed reporting period beginning on the effective date of the permit.

6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated on the DMR.

7. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

8. Record Contents

Records and monitoring information shall include:

- A. The date, exact place, time and methods of sampling or measurements, and preservatives used, if any.
- B. The individual(s) who performed the sampling or measurements.
- C. The date(s) and time analyses were performed.
- D. The individual(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The measurements and results of such analyses.

9. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- A. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.

Page 8 of Part III

D. Sample, inspect, or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D – REPORTING REQUIREMENTS

1. Planned Changes

The Permittee shall give notice to the Director as soon as possible but no later than 180 days prior to any planned physical alterations or additions to the permitted facility [40 CFR 122.41(1)]. Notice is required only when:

- A. The alteration or addition to a permitted facility may meet one of the criteria for new sources at 40 CFR 122.29(b).
- B. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants subject to effluent limitations in the permit, or to the notification requirements under 40 CFR 122.42(b).

2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

The permit is nontransferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part III.C.5. Discharge Monitoring Reports must be submitted even when no discharge occurs during the reporting period.

5. Compliance Schedule

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.

6. Twenty-four Hour Report

Please be aware that the notifications can be sent by email to <u>water-enforcement-report@adeq.state.ar.us</u> or at 501-682-0624 for immediate reporting:

AFIN: 46-00237 Page 9 of Part III

A. The permittee shall report any noncompliance which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances to the Enforcement Branch of the Office of Water Quality of DEQ. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain the following information:

- 1. A description of the noncompliance and its cause.
- 2. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue.
- 3. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- B. The following must be reported within 24 hours:
 - 1. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - 2. Any upset which exceeds any effluent limitation in the permit.
 - 3. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part I of the permit.
- C. The Director may waive the written report on a case-by-case basis if the notification has been received within 24 hours to the Enforcement Branch of the Office of Water Quality of the DEQ.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Parts III.D.4, 5, and 6, at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.6.

8. Changes in Discharge of Toxic Substances for Industrial Dischargers including Existing Manufacturing, Commercial, Mining, and Silvicultural Dischargers

The Director shall be notified as soon as the permittee knows or has 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 including those listed in 40 CFR 401.15 which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" described in 40 CFR Part 122.42(a)(1).
- B. That any activity has occurred or will occur which would result in any discharge on a non-routine or infrequent basis of a toxic pollutant including those listed in 40 CFR 401.15 which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" described in 40 CFR Part 122.42(a)(2).

Page 10 of Part III

9. **Duty to Provide Information**

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. Information shall be submitted in the form, manner and time frame requested by the Director.

10. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The complete application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be implemented through procedures outlined by APC&EC Rule No. 6.

11. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as follows:

A. All **permit applications** shall be signed as follows:

- 1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation.
 - (b) The manager of one or more manufacturing, production, or operation facilities, provided: the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- 2. For a partnership or sole proprietorship: by a general partner or proprietor, respectively.

Permit Number: AR0048691 AFIN: 46-00237 Page 11 of Part III

3. For a municipality, State, Federal, or other public agency, by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

- (a) The chief executive officer of the agency.
- (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- B. All **reports** required by the permit and **other information** requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by a person described above.
 - 2. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 - 3. The written authorization is submitted to the Director.
- C. Certification. Any person signing a document under this section shall make the following certification:

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

12. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2 and APC&EC Rule No. 6, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Environmental Quality. As required by the Regulations, the name and address of any permit applicant or permittee, permit applications, permits, and effluent data shall not be considered confidential.

13. Penalties for Falsification of Reports

The Arkansas Air and Water Pollution Control Act provides that any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this permit shall be subject to civil penalties specified in Part III.A.2 and/or criminal penalties under the authority of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 et seq.).

Permit Number: AR0048691 AFIN: 46-00237 Page 12 of Part III

14. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

AFIN: 46-00237 Page 1 of Part IV

PART IV DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act and 40 CFR 122.2 shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

- 1. "7-Day average" ("average weekly") the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week
- 2. "Act" the Clean Water Act, Public Law 95-217 (33.U.S.C. 1251 et seq.) as amended
- 3. "Administrator" the Administrator of the U.S. Environmental Protection Agency
- 4. "APC&EC" the Arkansas Pollution Control and Ecology Commission
- 5. "Applicable effluent standards and limitations" all State and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards of performance, toxic effluent standards and prohibitions, and pretreatment standards
- 6. "Applicable water quality standards" all water quality standards to which a discharge is subject under the federal Clean Water Act and which has been (a) approved or permitted to remain in effect by the Administrator following submission to the Administrator pursuant to Section 303(a) of the Act, or (b) promulgated by the Director pursuant to Section 303(b) or 303(c) of the Act, and standards promulgated under (APC&EC) Rule No. 2, as amended
- 7. "Best Management Practices (BMPs)" activities, practices, maintenance procedures, and other management practices designed to prevent or reduce the pollution of waters of the State; includes treatment technologies, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw sewage; may include structural devices or nonstructural practices
- 8. "Bypass" the intentional diversion of waste streams from any portion of a treatment facility, as defined at 40 CFR 122.41(m)(1)(i)
- 9. "Composite sample" a mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing a minimum of 4 effluent portions collected at equal time intervals (but not closer than one hour apart) during operational hours, within the 24-hour period, and combined proportional to flow or a sample collected at more frequent intervals proportional to flow over the 24-hour period
- 10. "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
 - A. **Mass Calculations:** for pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of pollutant discharged over the sampling day
 - B. Concentration Calculations: for pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day
- 11. "Daily Maximum" the highest allowable "daily discharge" during the calendar month
- 12. "Director" the Director of the Division of Environmental Quality
- 13. "Dissolved oxygen limit" shall be defined as follows:

Page 2 of Part IV

A. when limited in the permit as a minimum monthly average, shall mean the lowest acceptable monthly average value, determined by averaging all samples taken during the calendar month.

- B. when limited in the permit as an instantaneous minimum value, shall mean that no value measured during the reporting period may fall below the stated value
- 14. "**Division**" the Division of Environmental Quality (**DEQ**)
- 15. "*E. coli*" a sample consists of one effluent grab portion collected during a 24-hour period at peak loads; for *E. coli*, report the 7-Day Average as the geometric mean of all "daily discharges" within a calendar week and the Monthly Average as the geometric mean of all "daily discharges" within a calendar month, in colonies per 100 ml
- 16. "Fecal Coliform Bacteria (FCB)" a sample consists of one effluent grab portion collected during a 24-hour period at peak loads; for FCB, report the 7-Day Average as the geometric mean of all "daily discharges" within a calendar week and the Monthly Average as the geometric mean of all "daily discharges" within a calendar month, in colonies per 100 ml
- 17. "Grab sample" an individual sample collected in less than 15 minutes in conjunction with an instantaneous flow measurement
- 18. "Industrial User" a nondomestic discharger, as identified in 40 CFR Part 403, introducing pollutants to a publicly owned treatment works (POTW)
- 19. "Instantaneous flow measurement" the flow measured during the minimum time required for the flow-measuring device or method to produce a result in that instance; to the extent practical, instantaneous flow measurements coincide with the collection of any grab samples required for the same sampling period so that together the samples and flow are representative of the discharge during that sampling period
- 20. "Instantaneous Maximum" no value measured during the reporting period may fall above the stated value
- 21. "Instantaneous Minimum" no value measured during the reporting period may fall below the stated value
- 22. "Monitoring and Reporting" when a permit becomes effective, monitoring requirements are of the immediate period of the permit effective date; for monitoring requirements for an effluent characteristic of monthly or more frequently, the Discharge Monitoring Report (DMR) shall be submitted by the 25th of the month following the sampling; for monitoring requirements for an effluent characteristic of Quarterly, Semi-Annual, Annual, or Yearly, the DMR shall be submitted by the 25th of the month following the monitoring period end date
 - A. **MONTHLY** a calendar month or any portion of a calendar month for monitoring requirement frequency of once/month or more frequently.
 - B. **BI-MONTHLY** two (2) calendar months or any portion of 2 calendar months for monitoring requirement frequency of once/2 months or more frequently

C. QUARTERLY:

- 1. a **fixed calendar quarter** or any part of the fixed calendar quarter for a non-seasonal effluent characteristic with a measurement frequency of once/quarter; fixed calendar quarters are January through March, April through June, July through September, and October through December
- 2. a **fixed three month period** (or any part of the fixed three month period) of or dependent upon the seasons specified in the permit for a seasonal effluent characteristic with a monitoring requirement frequency of once/quarter that does not coincide with the fixed calendar quarter; seasonal calendar quarters are May through

Page 3 of Part IV

July, August through October, November through January, and February through April

- D. **SEMI-ANNUAL** the fixed time periods January through June, and July through December (or any portion thereof) for an effluent characteristic with a measurement frequency of once/6 months or twice/year
- E. ANNUAL or YEARLY a fixed calendar year (January through December) or any portion of the fixed calendar year for an effluent characteristic or parameter with a measurement frequency of once/year
- 23. "Monthly Average" the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month; for Fecal Coliform Bacteria (FCB) or *E. coli*, report the Monthly Average as the geometric mean of all "daily discharges" within a calendar month (see Part IV.15 and IV.16 above)
- 24. "National Pollutant Discharge Elimination System" the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements under Sections 307, 402, 318, and 405 of the Clean Water Act
- 25. "**POTW**" Publicly Owned Treatment Works; a treatment works (see Part IV.29 below) which is owned by a state or municipality
- 26. "Reduction of CBOD₅/BOD₅ and TSS Formula" [(Influent Effluent) / Influent] × 100
- 27. "Severe property damage" substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass; does not include economic loss caused by delays in products
- 28. "Sewage sludge" the solids, residues, and precipitate separated from or created in sewage by the unit processes at a POTW; any wastes, including wastes from humans, households, commercial establishments, industries, and stormwater runoff that are discharged to or otherwise enter a POTW
- 29. "Treatment works" any devices and systems used in storage, treatment, recycling, and reclamation of municipal sewage and industrial wastes, of a liquid nature to implement section 201 of the Act, or necessary to recycle reuse water at the most economic cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and alterations thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities, and any works, including site acquisition of the land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment
- 30. Units of Measure:

"cfs" cubic feet per second

"μg/l" micrograms per liter or parts per billion (ppb)

"MGD" million gallons per day

"mg/l" milligrams per liter or parts per million (ppm)

"ppm" parts per million

"s.u." standard units

31. "Upset" an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee; does not include noncompliance to the extent caused

AFIN: 46-00237 Page 4 of Part IV

by operational error, improperly designed treatment facilities, lack of preventive maintenance, or careless, or improper operations

- 32. "Visible sheen" the presence of a film or sheen upon or a discoloration of the surface of the discharge; a sheen can also be from a thin glistening layer of oil on the surface of the discharge
- 33. "Weekday" Monday Friday.

Final Statement of Basis

This Statement of Basis is for information and justification of the permit requirements only. Please note that it is not enforceable. This permitting decision is for renewal of the discharge Permit Number AR0048691 with Arkansas Department of Energy and Environment – Division of Environmental Quality (DEQ) Arkansas Facility Identification Number (AFIN) 46-00237 to discharge to Waters of the State.

1. PERMITTING AUTHORITY

The issuing office is:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT

The applicant's mailing address is:

City of Texarkana - North Texarkana WWTP 801 Wood Street Texarkana, TX 75501

The facility address is:

City of Texarkana - North Texarkana WWTP 8301 Sanderson Lane Texarkana, AR 71854

3. PREPARED BY

The permit was prepared by:

Terry Liu, P.E. Jessica Sears, P.E. Staff Engineer Engineer Supervisor

NPDES Discharge Permits Section NPDES Discharge Permits Section

Office of Water Quality

Office of Water Quality

(501) 682-0653 (501) 682-0621

Email: liu@adeq.state.ar.us Email: jessica.sears@adeq.state.ar.us

4. PERMIT ACTIVITY

Previous Permit Effective Date: November 1, 2009
Previous Permit Expiration Date: October 31, 2014

The permittee submitted a permit renewal application on April 4, 2014, with additional information received by October 1, 2015. The current discharge permit is being reissued for a

5-year term in accordance with regulations promulgated at 40 CFR Part 122.46(a).

DOCUMENT ABBREVIATIONS

In the document that follows, various abbreviations are used. They are as follows:

APC&EC - Arkansas Pollution Control and Ecology Commission

BAT - best available technology economically achievable

BCT - best conventional pollutant control technology

BMP - best management practice

BOD₅ - five-day biochemical oxygen demand

BPJ - best professional judgment

BPT - best practicable control technology currently available

CBOD₅ - carbonaceous biochemical oxygen demand

CD - critical dilution

CFR - Code of Federal Regulations

cfs - cubic feet per second

COD - chemical oxygen demand

COE - United States Corp of Engineers

CPP - continuing planning process

CWA - Clean Water Act

DMR - discharge monitoring report

DO - dissolved oxygen

ELG - effluent limitation guidelines

EPA - United States Environmental Protection Agency

ESA - Endangered Species Act

FCB - fecal coliform bacteria

gpm - gallons per minute

MGD - million gallons per day

MQL - minimum quantification level

NAICS - North American Industry Classification System

NH₃-N - ammonia nitrogen

 $NO_3 + NO_2 - N$ - nitrate + nitrite nitrogen

NPDES - National Pollutant Discharge Elimination System

O&G - oil and grease

Rule 2 - APC&EC Rule No. 2

Rule 6 - APC&EC Rule No. 6

Rule 8 - APC&EC Rule No. 8

Rule 9 - APC&EC Rule No. 9

RP - reasonable potential

SIC - standard industrial classification

SSO - sanitary sewer overflow

TDS - total dissolved solids

TMDL - total maximum daily load

TP - total phosphorus

TRC - total residual chlorine

Page 3 of Statement of Basis Permit Number: AR0048691

AFIN: 46-00237

TSS - total suspended solids
UAA - use attainability analysis
USF&WS - United States Fish and Wildlife Service
USGS - United States Geological Survey
WET - whole effluent toxicity
WQMP - water quality management plan
WQS - Water Quality standards
WWTP - wastewater treatment plant

Compliance and Enforcement History:

The compliance and enforcement history for this facility can be reviewed by using the following web link:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0048691_Compliance%20Review_20200706.pdf

5. SIGNIFICANT CHANGES FROM THE PREVIOUSLY ISSUED PERMIT

The permittee is responsible for carefully reading the permit in detail and becoming familiar with all of the changes therein:

- 1. The mailing address is removed from the cover page.
- 2. The CBOD₅ concentration limits have been updated due to a change in rounding procedures.
- 3. The sample type for CBOD₅, TSS, and NH₃-N has been changed from 3-hr composite to composite in Part IA.
- 4. The FCB limits for April have been changed. See Section 12.A of this Statement of Basis for additional information.
- 5. The mass limits for TDS and Sulfates are included in this permit. See Section 7.B and 12 of this Statement of Basis for further information.
- 6. Part II.3 of the previous permit, the sludge disposal condition, was removed. Sludge disposal is addressed in Part III.B.6 of the permit.
- 7. The Best Management Practices condition is added in Part II.5 of this permit.
- 8. The Sanitary Sewer Overflows (SSOs) condition is revised in Part II.6 of this permit.
- 9. The monthly total number of SSOs and the monthly total volume of SSOs must be reported on the Discharge Monitoring Reports.
- 10. The Monitoring Frequency Reduction condition is added in Part II.9 of this permit
- 11. The TDS and Sulfates condition in Part II.9 of the previous permit has been removed because mass limits are included for both parameters in this permit.
- 12. The Applicable Federal, State or Local Requirements condition is added in Part III.A.10.
- 13. Part III.C.5 of the permit now requires that DMRs be submitted electronically via NetDMR.
- 14. The Twenty-four Hour Report condition is revised in Part III.D.6 of this permit.
- 15. The Other Information condition is added in Part III.D.14 of this permit.

Page 4 of Statement of Basis Permit Number: AR0048691 AFIN: 46-00237

6. RECEIVING STREAM SEGMENT AND DISCHARGE LOCATION

The outfall is located at the following coordinates based on the renewal application and verified with Google Earth using WGS84:

Latitude: 33° 30' 13.70" N; Longitude: 94° 01' 17.40" W

The receiving waters named:

McKinney Bayou, thence to the Red River in Segment 1B of the Red River Basin. The receiving stream with USGS Hydrologic Unit Code (H.U.C.) of 11140201 and Reach #014 is a Water of the State classified for primary and secondary contact recreation, raw water source for domestic (public and private), industrial, and agricultural water supplies; propagation of desirable species of fish and other aquatic life; and other compatible uses.

7. 303(d) LIST, TOTAL MAXIMUM DAILY LOADS, ENDANGERED SPECIES, AND ANTI-DEGRADATION CONSIDERATIONS

A. 303(d) List

The receiving stream is not listed on the 2018 303(d) list. Therefore, no additional permitting action is required at this time.

B. Applicable Total Maximum Daily Load (TMDL) Reports

A report entitled "TMDLs for Chloride, Sulfate, and TDS for the Red River, Sulphur River, and McKinney Bayou, AR" by FTN Associates, Ltd. dated September 27, 2012 included wasteload allocations (WLAs) for this facility. Therefore, the mass limitations for TDS and Sulfates are included in this permit based on the WLAs in TMDL report.

C. Endangered Species

No comments on the application were received from the USF&WS. The draft permit and Statement of Basis were sent to the USF&WS for their review.

D. Anti-Degradation

The limitations and requirements set forth in this permit for discharge into waters of the State are consistent with the Anti-degradation Policy and all other applicable water quality standards found in APC&EC Rule No. 2.

8. OUTFALL, TREATMENT PROCESS DESCRIPTION, AND FACILITY CONSTRUCTION

The following is a description of the facility described in the application:

A. Design Flow: 0.95 MGD

Page 5 of Statement of Basis Permit Number: AR0048691

AFIN: 46-00237

B. Type of Treatment: lift station, bar screen, grit removal, aerated activated sludge, secondary clarification, post aeration, and UV disinfection

- C. Discharge Description: treated municipal wastewater
- D. Facility Status: This facility is classified as a minor municipal since the design flow of the facility listed above is less than 1.0 MGD.
- E. Facility Construction: This permit does not authorize or approve the construction or modification of any part of the treatment system or facilities. Approval for such construction must be by permit issued under Rule 6.202.

9. ACTIVITY

Under the Standard Industrial Classification (SIC) code of 4952 or North American Industry Classification System (NAICS) code of 221320, the applicant's activities are the operation of a sewage treatment plant.

10. INDUSTRIAL WASTEWATER CONTRIBUTIONS

Currently, it does not appear the facility receives process wastewater from any significant industrial users as defined by 40 CFR §403.3(v). In accordance with 40 CFR §403.5(a)(1) and (b), General and Specific Pretreatment Prohibitions and reporting requirements are deemed appropriate at this time.

11. SEWAGE SLUDGE PRACTICES

Waste activated sludge is pumped to the South Regional WWTP collection system and allowed to flow by gravity to the South Regional WWTP located in Texas. Any change to the sludge disposal method shall be in accordance with Part III.B.6 of the permit.

12. DEVELOPMENT AND BASIS FOR PERMIT CONDITIONS

The Division of Environmental Quality has determined to issue a permit for the discharge described in the application. Permit requirements are based on federal regulations (40 CFR Parts 122, 124, and Subchapter N), the National Pretreatment Regulation in 40 CFR Part 403 and regulations promulgated pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.). All of the information contained in the application, including all of the submitted effluent testing data, was reviewed to determine the need for effluent limits and other permit requirements.

The following is an explanation of the derivation of the conditions of the permit and the reasons for them or, in the case of notices of intent to deny or terminate, reasons suggesting the decisions as required under 40 CFR Part 124.7.

Technology-Based Versus Water Quality-Based Effluent Limitations and Conditions

Following regulations promulgated at 40 CFR Part 122.44, the permit limits are based on either technology-based effluent limits pursuant to 40 CFR Part 122.44(a) or on State water quality standards and requirements pursuant to 40 CFR Part 122.44(d), whichever are more stringent as follows:

| | Water Quality- Based | | Technology- Based/BPJ | | Previous Permit | | Permit Limit | | |
|--------------------|-------------------------|-------|--------------------------|--------|---------------------|--------|------------------|------------------|--|
| Parameter | Monthly | 7-day | Monthly | 7-day | Monthly | 7-day | Monthly | 7-day | |
| | Avg. | Avg. | Avg. | Avg. | Avg. | Avg. | Avg. | Avg. | |
| | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | |
| CBOD ₅ | 10 | 15 | 25 | 40 | 10.0 | 15.0 | 10 | 15 | |
| TSS | 15.0 | 22.5 | 30 | 45 | 15.0 | 22.5 | 15.0 | 22.5 | |
| NH ₃ -N | | | | | | | | | |
| (April) | 6.0 | 6.1 | N/A | N/A | 6.0 | 6.1 | 6.0 | 6.1 | |
| (May – October) | 4.0 | 6.0 | N/A | N/A | 4.0 | 6.0 | 4.0 | 6.0 | |
| (November – April) | 6.0 | 9.0 | N/A | N/A | 6.0 | 9.0 | 6.0 | 9.0 | |
| DO | | | | | | | | | |
| (May – October) | 5.0 (Inst. Min.) | | N/A | | 5.0 (Inst. Min.) | | 5.0 (Inst. Min.) | | |
| (November – April) | 7.0 (Inst. Min.) | | N/A | | 7.0 (Inst. Min.) 7. | | 7.0 (Ins | 7.0 (Inst. Min.) | |
| FCB (col/100 ml) | | | | | | | | | |
| (April) | 1000 | 2000 | N/A | N/A | 200 | 400 | 1000 | 2000 | |
| (May – September) | 200 | 400 | N/A | N/A | 200 | 400 | 200 | 400 | |
| (October – March) | 1000 | 2000 | N/A | N/A | 1000 | 2000 | 1000 | 2000 | |
| TDS | 3,800 lbs/day | | N/A | N/A | N/A | N/A | 3,800 1 | bs/day | |
| | N/A | N/A | Report | Report | Report | Report | Report | Report | |
| Sulfates | 480 lbs | s/day | N/A | N/A | N/A | N/A | 480 11 | s/day | |
| | N/A | N/A | Report | Report | Report | Report | Report | Report | |
| рН | 6.0-9.0 | s.u. | 6.0-9. | 0 s.u. | 6.0-9. | 0 s.u. | 6.0-9. | 0 s.u. | |

A. Justification for Limitations and Conditions of the Final Permit

| Parameter | Water Quality or Technology | Justification |
|--------------------|-----------------------------|---|
| CBOD ₅ | Water Quality | Water Quality Model dated August 3, 2020, CWA § 402(o), and previous permit |
| TSS | Water Quality | Water Quality Model dated August 3, 2020, CWA § 402(o), and previous permit |
| NH ₃ -N | Water Quality | Rule 2.512, Water Quality Model dated August 3, 2020, CWA § 402(o), and previous permit |

| Parameter | Water Quality or Technology | Justification |
|-----------|-----------------------------|---|
| DO | Water Quality | Rule 2.505, Water Quality Model dated August 3, 2020, CWA § 402(o), and previous permit |
| FCB | Water Quality | Rule 2.507, CWA § 402(o), and previous permit |
| TDS | Water Quality | "TMDLs for Chlorides, Sulfate, and TDS for the Red River, Sulphur River and McKinney Bayou, Arkansas", FTN Associates, Ltd., September 27, 2012, CWA § 402(o), and previous permit |
| Sulfate | Water Quality | "TMDLs for Chlorides, Sulfate, and TDS for the Red River, Sulphur River and McKinney Bayou, Arkansas", FTN Associates, Ltd., September 27, 2012, CWA § 402(o), and previous permit |
| pН | Water Quality | Rule 2.504, CWA § 402(o), and previous permit |

FCB

The final effluent limitations for Fecal Coliform Bacteria for the month of April in the previous permit were not consistent with Rule No. 2. These limitations have not been continued. The Fecal Coliform Bacteria limitations are updated based on Rule 2.507.

TDS and Sulfates

Based on the wasteload allocations in the report "TMDLs for Chlorides, Sulfate, and TDS for the Red River, Sulphur River, and McKinney Bayou, Arkansas" dated September 27, 2012, mass limits for TDS and Sulfates are included in this permit.

B. Anti-backsliding

The permit is consistent with the requirements to meet Anti-backsliding provisions of the Clean Water Act (CWA), Section 402(o) [40 CFR 122.44(l)]. The final effluent limitations for reissuance permits must be as stringent as those in the previous permit, unless the less stringent limitations can be justified using exceptions listed in CWA 402(o)(2), CWA 303(d)(4), or 40 CFR 122.44(l)(2)(i).

The permit meets or exceeds the requirements of the previous permit, with the exception of revised limitations identified for Fecal Coliform Bacteria in the month of April. This revision is allowed in accordance with CWA § 303(d)(4)(B) based on the seasonal limits defined in APC&EC Rule 2.507.

C. Limits Calculations

1. Mass Limits:

In accordance with 40 CFR 122.45(f)(1), all pollutants limited in permits shall have limitations expressed in terms of mass if feasible. 40 CFR 122.45(f)(2) allows for

Page 8 of Statement of Basis Permit Number: AR0048691 AFIN: 46-00237

pollutants which are limited in terms of mass to also be limited in terms of other units of measurement.

The calculation of the loadings (lbs per day) except TDS and Sulfates uses a design flow of 0.95 MGD and the following equation:

Mass (lbs/day) = Concentration (mg/l)
$$\times$$
 Flow (MGD) \times 8.34

The mass limits for TDS and Sulfates are based on wasteload allocations in the TMDL report.

2. 7-Day Average Limits:

The 7-day average limits for NH₃-N (May through March) as well as CBOD₅ and TSS are based on Section 5.4.2 of the Technical Support Document for Water Quality-based Toxics Control:

7-day average limits = monthly average limits \times 1.5

The 7-day average NH₃-N limit for the month of April is based on the requirements of Rule 2.512.

The 7-day average limits for FCB are based on Rules 2.507.

D. 208 Plan (Water Quality Management Plan)

The 208 Plan, developed by the DEQ under provisions of Section 208 of the federal Clean Water Act, is a comprehensive program to work toward achieving federal water goals in Arkansas. The initial 208 Plan, adopted in 1979, provides for annual updates, but can be revised more often if necessary. No changes to the 208 Plan are occurring with this permit renewal.

13. SAMPLE TYPE AND FREQUENCY

Regulations require permits to establish monitoring requirements to yield data representative of the monitored activity [40 CFR Part 122.48(b)] and to ensure compliance with permit limitations [40 CFR Part 122.44(i)(l)].

Requirements for sample type and sampling frequency have been based on the previous discharge permit, with the exception of sample type for CBOD₅, TSS and NH₃-N. The sample type for CBOD₅, TSS, and NH₃-N is changed to composite as defined in Part IV.9.

| | Previou | s Permit | Final Permit | | |
|-------------------|---------------------------------|------------------|---------------------|------------------|--|
| Parameter | Parameter Frequency of Sample S | | Frequency of Sample | Sample Type | |
| Flow | once/day | totalizing meter | once/day | totalizing meter | |
| CBOD ₅ | three/month | 3-hr composite | three/month | composite | |

| | Previou | s Permit | Final Permit | | |
|--------------------|---------------------|----------------|---------------------|-------------|--|
| Parameter | Frequency of Sample | Sample Type | Frequency of Sample | Sample Type | |
| TSS | three/month | 3-hr composite | three/month | composite | |
| NH ₃ -N | three/month | 3-hr composite | three/month | composite | |
| DO | three/month | grab | three/month | grab | |
| FCB | three/month | grab | three/month | grab | |
| TDS | three/month | grab | three/month | grab | |
| Sulfates | three/month | grab | three/month | grab | |
| рН | three/month | grab | three/month | grab | |

14. PERMIT COMPLIANCE SCHEDULE

A Schedule of Compliance has been included in this permit for TDS and Sulfates. Compliance with all permit requirements is required in accordance with the schedule provided in Part IB of the permit. The Division has chosen to exercise its discretion provided for in Rule No. 2 to allow a three-year Schedule of Compliance for the new limits. Therefore, the TDS and Sulfates limits will be effective three years after the effective date of the permit. In the interim, monitoring and reporting for TDS and Sulfates are required. Additionally, the permittee has the option to undertake any study deemed necessary to meet the final limitations during the interim period. Any additional treatment must be approved and construction approval granted prior to final installation.

15. MONITORING AND REPORTING

The applicant is at all times required to monitor the discharge on a regular basis and report the results monthly. The monitoring results will be available to the public.

16. SOURCES

The following sources were used to draft the permit:

- A. <u>Application No. AR0048691 received April 4, 2014, with additional information received</u> by October 1, 2015.
- B. Arkansas Water Quality Management Plan (WQMP).
- C. APC&EC Rule No. 2.
- D. APC&EC Rule No. 3.
- E. APC&EC Rule No. 6, which incorporates by reference certain federal regulations included in Title 40 of the Code of Federal Regulations at Rule 6.104.
- F. 40 CFR Parts 122, 125, 133 and 403.
- G. Discharge permit file AR0048691.
- H. Discharge Monitoring Reports (DMRs).
- I. "2018 Integrated Water Quality Monitoring and Assessment Report," DEQ.
- J. "2018 List of Impaired Waterbodies (303(d) List)," DEQ, May 2020.

Page 10 of Statement of Basis Permit Number: AR0048691 AFIN: 46-00237

- K. "TMDLs for Chloride, Sulfate, and TDS for the Red River, Sulphur River, and McKinney Bayou, AR", FTN Associates, Ltd., September 27, 2012.
- L. USGS StreamStats Web-based program.
- M. Continuing Planning Process (CPP).
- N. Technical Support Document for Water Quality-based Toxic Control.
- O. Inspection Report dated April 29, 2020.
- P. Request for Change of Authorization on October 1, 2015.
- Q. Compliance Review Memo from Danielle Harbin to Terry Liu dated July 6, 2020.
- R. Water Quality Model dated August 3, 2020.
- S. <u>ADH No Comment to Preliminary Draft Permit Letter, dated September 14, 2020, from Teresa Lee of ADH to Bryan Leamons of DEQ.</u>

17. PUBLIC NOTICE

The public notice of the draft permit was published for public comment on September 3, 2020. The last day of the comment period was October 5, 2020. No public comments were received on the draft permit.

A copy of the permit and public notice were sent via email to the State of Texas, Corps of Engineers, the Regional Director of the U.S. Fish and Wildlife Service, the Department of Parks, Heritage, and Tourism, the EPA, and the Arkansas Department of Health.

18. PERMIT FEE

In accordance with Rule No. 9.403(C)(1), the annual fee for the permit is calculated from the Design Flow (Q, in MGD) as follows:

Fee =
$$$200 + (5,600 \times Q) = $200 + (5,600 \times 0.95) = $5,520$$

19. POINT OF CONTACT

For additional information, contact:

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