



Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
3. Second notice (NAPD-Notice of Preliminary Decision)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR INDUSTRIAL WASTEWATER

MINOR AMENDMENT

PERMIT NO. WQ0005334000

APPLICATION AND PRELIMINARY DECISION. The Texas Commission on Environmental Quality (TCEQ) has initiated a minor amendment of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005334000 issued to the City of Sherman, 220 West Mulberry Street, Sherman, Texas 75090, which operates the City of Sherman Surface Water Treatment Plant, a drinking water treatment facility, to implement controls for total copper at Outfall 001. The existing permit authorizes the discharge of water treatment wastes at a daily average flow not to exceed 4,980,000 gallons per day via Outfall 001.

The facility is located at 243 La Cima Road, City of Sherman, Grayson County, Texas 75092. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. <https://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=db5bac44afbc468bbddd360f8168250f&marker=-96.645021%2C33.703229&level=12>

The effluent is discharged to a constructed ditch, thence to an unnamed ditch, thence to an unnamed tributary of Harris Creek, thence to Harris Creek, thence to Lake Texoma in Segment No. 0203 of the Red River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch, and limited aquatic life use for the unnamed tributary of Harris Creek. The designated uses for Segment No. 0203 are primary contact recreation, public water supply, and high aquatic life use.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the 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.

Written public comments should be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at <https://www.tceq.texas.gov/goto/comment> within 30 days of the date this notice is mailed.

After the deadline for public comments, the Executive Director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application.**

MAILING LISTS. In addition to submitting public comments, you may ask to be placed on a mailing list to receive future public notices mailed by the Office of the Chief Clerk. You may request to be added to: (1) the mailing list for this specific application; (2) the permanent mailing list for a specific applicant name and permit number; and (3) the permanent mailing list for a specific county. Clearly specify which mailing list(s) to which you wish to be added and send your request to the TCEQ Office of the Chief Clerk at the address above. Unless you otherwise specify, you will be included only on the mailing list for this specific application.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at <https://www.tceq.texas.gov/goto/cid/>. 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 <https://www.tceq.texas.gov/goto/comment>, 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 <https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Sherman at the address stated above or by calling Mr. Tom Pruitt, P.E., Utility Engineer, at 903-892-7212.

Issued: January 15, 2026



TEXAS COMMISSION ON ENVIRONMENTAL
QUALITY

P.O. Box 13087
Austin, Texas 78711-3087

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

TPDES PERMIT NO.
WQ0005334000
*[For TCEQ office use only -
EPA I.D. No. TX0141755]*

This staff-initiated amendment
replaces TPDES Permit No.
WQ0005334000, issued on
February 14, 2025.

City of Sherman

whose mailing address is

220 West Mulberry Street
Sherman, TX 75090

is authorized to treat and discharge wastes from City of Sherman Surface Water Treatment Plant, a drinking water treatment facility (SIC 4941)

located at 243 La Cima Road, City of Sherman, Grayson County, Texas 75092

to a constructed ditch, thence to an unnamed ditch, thence to an unnamed tributary of Harris Creek, thence to Harris Creek, thence to Lake Texoma in Segment No. 0203 of the Red 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, December 12, 2027.

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS – Phase I

Outfall Number 001

1. During the period beginning upon the date of permit issuance and lasting through the date of completion of expansion to the 3.49 million gallons per day (MGD) facility or the date of permit expiration, whichever comes first, the permittee is authorized to discharge water treatment wastes ¹ subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 2.73 MGD. The daily maximum flow shall not exceed 3.83 MGD.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	2.73 MGD	3.83 MGD	N/A	1/day	Flow Meter
Total Copper ²	Report	Report	N/A	1/week	Composite
Total Copper ³	0.072	0.151	0.216	1/week	Composite

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/day by grab sample.
3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples must be taken at the following location: Outfall 001, at the southern boundary of the Water Treatment Plant.

¹ See Other Requirement No. 3.

² Effective beginning upon the date of permit issuance and lasting for 365 days.

³ Effective beginning upon 366 days from the date of permit issuance and lasting until the date of permit expiration or completion of expansion to the 3.49 MGD facility, whichever comes first.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS – Phase II

Outfall Number 001

1. During the period beginning upon the date of completion of expansion to the 3.49 MGD facility ¹ and lasting through the date of completion of expansion to the 4.98 MGD facility or the date of permit expiration, whichever comes first, the permittee is authorized to discharge water treatment wastes ² subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 3.49 MGD. The daily maximum flow shall not exceed 4.89 MGD.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	3.49 MGD	4.89 MGD	N/A	1/day	Flow Meter
Total Copper ³	Report	Report	N/A	1/month	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/day by grab sample.
3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples must be taken at the following location: Outfall 001, at the southern boundary of the Water Treatment Plant.

¹ See Other Requirement No. 7.

² See Other Requirement No. 3.

³ This monitoring requirement self-expires on October 12, 2027.

1. During the period beginning upon the date of completion of expansion to the 4.98 MGD facility ¹ and lasting through the date of permit expiration, the permittee is authorized to discharge water treatment wastes ² subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 4.98 MGD. The daily maximum flow shall not exceed 6.97 MGD.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	4.98 MGD	6.97 MGD	N/A	1/day	Flow Meter
Total Copper ³	Report	Report	N/A	1/month	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/day by grab sample.
3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples must be taken at the following location: Outfall 001, at the southern boundary of the Water Treatment Plant.

¹ See Other Requirement No. 7.

² See Other Requirement No. 3.

³ This monitoring requirement self-expires on October 12, 2027.

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 Texas Water Code §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 a 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 (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies 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 *n*th 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 substitute 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 × Concentration, mg/L × 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(c).
 - 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 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, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. 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; TWC Chapters 26, 27, and 28; and THSC Chapter 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 Chapter 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 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 that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. 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 that 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 that 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) that 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 µg/L);
 - ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/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 that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that 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 that 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 that 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 Texas Water Code §§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 Chapter 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 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; or
 - 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 that are not described in the permit application or that 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 that 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 Texas Water Code 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(15)) 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;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. 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 Domestic Permits Team, Domestic Wastewater 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 Domestic Permits Team, Domestic Wastewater 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 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, 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 or upgrading of the domestic wastewater treatment 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 or collection facilities. In the case of a domestic wastewater treatment facility that 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 219) 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.
9. 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 Corrective Action 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 Permitting and Remediation Support 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 Chapter 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 Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

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OTHER REQUIREMENTS

1. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 4 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 4 and the Enforcement Division (MC 224):

Pollutant	MAL¹ (mg/L)
Copper (Total)	0.002

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

“The reported value(s) of zero for [list pollutant(s)] on the self-reporting form for [monitoring period date range] is based on the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL.”

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

2. Reporting requirements according to 30 TAC §§ 319.1-319.12 and any additional effluent reporting requirements contained on pages 2a and 2b of this permit are suspended from the effective date of the permit until the date of completion of expansion to the 3.49 MGD facility and 4.98 MGD facility, respectively. The permittee shall provide written notice to the TCEQ Region 4 Office, Applications Review and Processing Team (MC 148) of the Water Quality Division, and the Enforcement Division (MC 224) at least forty-five days prior to the completion of each additional phase on Notification of Completion Form 20007.
3. The term *water treatment wastes* includes, but is not limited to, cold lime water treatment wastes, demineralizer backwash, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, and reverse osmosis reject water
4. A flow measuring device and a readily accessible sampling point shall be provided by the permittee.

¹ Minimum analytical level.

5. This permit does not authorize the discharge of domestic wastewater. All domestic wastewaters must be disposed of in an approved manner such as routing to an approved on-site septic tank and drainfield system or to an authorized third party for treatment and disposal.
6. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.
7. Copper algaecides, including but not limited to Copper Sulfate or Chelated Copper, are prohibited for discharge while the facility is discharging via Outfall 001 under Phase II and Final Phase conditions, as specified by pages 2a, and 2b of this permit.

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DESCRIPTION OF APPLICATION

Applicant: City of Sherman; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005334000 (EPA I.D. No. TX0141755)

Regulated activity: Industrial wastewater permit

Type of application: Staff-initiated amendment

Request: Staff initiated amendment to implement controls for total copper at Outfall 001 following the receipt of discharge data in violation of water quality standards

Authority: Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

The TCEQ has initiated an amendment without renewal; therefore, only the items relevant to the actions being taken in the staff-initiated amendment were considered in the drafting of this permit and Statement of Basis. The information provided in this document is primarily continued from the Statement of Basis for the permit issued on February 14, 2025.

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, December 12, 2027.

REASON FOR PROJECT PROPOSED

The Texas Commission on Environmental Quality (TCEQ) has initiated an amendment to the City of Sherman's existing permit. The proposed staff-initiated amendment would implement controls for total copper at Outfall 001 following the receipt of discharge data in violation of water quality standards.

PROJECT DESCRIPTION AND LOCATION

The applicant currently operates the City of Sherman Surface Water Treatment Plant, a drinking water treatment facility.

The wastewater system consists of current operations utilizing conventional treatment combined with Electrodialysis Reversal (EDR) in parallel to Ultrafiltration (UF) and Reverse Osmosis (RO). The plant will ultimately transition to only UF and RO, in phases. Water treatment wastes will include but are not limited to filter backwash, RO reject water, and EDR demineralization reject water.

The facility is located at 243 La Cima Road, City of Sherman, Grayson County, Texas 75092.

Discharge Route and Designated Uses

The effluent is discharged to a constructed ditch, thence to an unnamed ditch, thence to an unnamed tributary of Harris Creek, thence to Harris Creek, thence to Lake Texoma in Segment No. 0203 of the Red River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch, and limited aquatic life use for the unnamed tributary of Harris Creek. The designated uses for

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Segment No. 0203 are primary contact recreation, public water supply, and high aquatic life use. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

Endangered Species Review

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System Program (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. Though the piping plover, *Charadrius melodus Ord*, can occur in Segment 0203 and Grayson County, the county and segment is north of Copano Bay and not a watershed of high priority per Appendix A of the biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Impaired Water Bodies

Segment No. 0203 is not currently listed on the state's inventory of impaired and threatened waters, the 2022 CWA §303(d) list.

Completed Total Maximum Daily Loads (TMDLs)

There are no completed TMDLs for Segment No. 0203.

Dissolved Oxygen

Due to the low concentrations of oxygen-demanding constituents expected in the type of effluent discharged via Outfall 001, no significant oxygen depletion is expected in the receiving waters as a result of the discharge via Outfall 001.

SUMMARY OF EFFLUENT DATA

The following is a quantitative description of the discharge described in the monthly effluent report data for the period April 2025 through August 2025. The "Avg of Daily Avg" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "Max of Daily Max" values presented in the following table are the individual maximum values for the reporting period for each pollutant. Flows are expressed in million gallons per day (MGD). All pH values are expressed in standard units (SU).

Flow

Outfall	Frequency	Avg of Daily Avg, MGD	Max of Daily Max, MGD
001	Continuous	1.15	1.79

Effluent Characteristics

Outfall	Pollutant	Min of Daily Min	Max of Daily Max
		SU	SU
001	pH	7.27	8.46

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No effluent limit violations were documented in the monthly effluent reports.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the discharge of water treatment wastes at a daily average flow not to exceed 2.73, 3.49, and 4.98 MGD via Outfall 001 at phases I, II, and Final, respectively.

Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant (Unit)	Daily Average	Daily Maximum
001, Phase I	Flow, MGD	2.73	3.83
	Total Copper, mg/L ¹	Report	Report
	Total Copper, mg/L ²	0.072	0.151
	pH, SU	6.0, minimum	9.0, maximum
001, Phase II	Flow, MGD	3.49	4.89
	Total Copper, mg/L ³	Report	Report
	pH, SU	6.0, minimum	9.0, maximum
001, Final Phase	Flow, MGD	4.98	6.97
	Total Copper, mg/L ³	Report	Report
	pH, SU	6.0, minimum	9.0, maximum

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	33.701121 N	96.651161 W

Technology-Based Effluent Limitations

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. The discharge of water treatment wastes is not subject to any federal effluent guidelines, and there are no applicable state-level technology-based effluent limitations for this wastestream.

Water Quality-Based Effluent Limitations (WQBELs)

Calculations of WQBELs for the protection of aquatic life and human health are presented in Appendix A. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated June 25, 2025. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average WQBEL. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average WQBEL. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

¹ Effective beginning upon the date of permit issuance and lasting for 365 days.

² Effective beginning upon 366 days from the date of permit issuance and lasting until the date of permit expiration.

³ This monitoring requirement self-expires on October 12, 2027

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Data reported in a letter submitted to the TCEQ on June 24, 2025, was screened against the calculated WQBELs found in Appendix A. The average result for total copper at Outfall 001 is greater than 70% of the daily average aquatic life WQBEL for total copper. In an email received on June 25, 2025, the TCEQ was informed that copper sulfate is added to the retention pond on-site prior to reverse osmosis treatment to prevent algal growth and control odors. To control the loading of total copper discharged via Outfall 001, a daily average and daily maximum limit for total copper has been added to the draft permit at Phase I. Following the completion of the facility expansion to the 3.49 MGD facility, the facility will transition to a self-expiring monitoring requirement for total copper, coupled with a prohibition of the discharge of copper-based algaecides.

The draft permit includes an interim one-year compliance period for total copper in accordance with 30 TAC §307.2(f). The interim compliance period will give the applicant time to adjust the dosing levels of copper sulfate prior to the implementation of the total copper WQBELs.

Total Dissolved Solids (TDS), Chloride, and Sulfate Screening

On November 3, 2022, the Standards Implementation Team received the City of Sherman's Aquatic Life Study final report. The report provides dissolved solids data from nearby waterbodies and includes fish data for some of those waterbodies. The data indicates mean dissolved solids levels higher than the projected effluent dissolved solids levels.

The data received on June 24, 2025, to fulfill Other Requirement No. 7 in the existing permit was screened using the City of Sherman's Aquatic Life Study final report to determine whether controls for TDS, chloride, or sulfate are required. Data from the reference streams in the applicant's study indicates that the effluent, discharged at levels reported in the re-test data, will support aquatic life assemblages found in the receiving waters. Reference waterbodies in the area have diverse populations of fish and macroinvertebrates at TDS, chloride, and sulfate values comparable and even higher than the dissolved solids values in the effluent. Therefore, the effluent is compatible with the existing limited aquatic life use in the receiving waters.

pH Screening

The existing permit includes pH limits of 6.0 – 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. These limits have been carried forward in the draft permit.

Whole Effluent Toxicity Testing (Biomonitoring)

Biomonitoring requirements are not included in the draft permit at Outfall 001. The existing permit did not establish biomonitoring requirements and discharges authorized by this permit do not meet the threshold established in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) to impose biomonitoring requirements.

SUMMARY OF CHANGES FROM EXISTING PERMIT

The TCEQ has implemented the following changes in this staff-initiated amendment that the Executive Director has recommended granting.

1. Daily average and daily maximum water quality-based effluent limitations for total copper have been added at Outfall 001, Phase I.
2. Self expiring monitoring requirements for total copper have been added to Outfall 001, Phase II and the Final Phase.

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The following additional changes have been made to the draft permit.

1. Other Requirement No. 1 was updated to include the MAL for total copper with the addition of the effluent limits for total copper.
2. Other Requirement No. 2 in the existing permit was revised to reflect the facility's construction and commencement of discharge on April 1, 2025.
3. Other Requirement No. 7 in the existing permit was removed because this other requirement was fulfilled via the submission of effluent data on June 24, 2025.
4. References to the Compliance Monitoring Team throughout the permit have been revised to the Enforcement Division.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application opened on July 31, 2025, and additional information received on June 24, 2025, June 25, 2025, and October 23, 2025.
2. Existing permits: TPDES Permit No. WQ0005334000 issued on February 14, 2025.
3. Waste Load Evaluation for Segment No. 0203.
4. TCEQ Rules.
5. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
6. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
7. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
8. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.
9. *Procedures to Implement the Texas Surface Water Quality Standards* (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
10. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
11. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
12. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
13. Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).
14. Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).

PROCEDURES FOR FINAL DECISION

Once the draft permit is completed, it is sent to the Office of the Chief Clerk of the TCEQ. The Chief Clerk mails the Notice of Application and Preliminary Decision to any interested persons. This notice informs the public about the application and provides that an interested person may file comments on

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the application or request a public meeting. The notice is also published in the Texas Register. This notice sets a deadline that is 30 days from the date this notice is mailed for making public comments or requesting a public meeting.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing. As this is a minor amendment, there is no right to a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments or requested to be on the mailing list. If the Executive Director calls a public meeting, the commission will give notice of the date, time, and place of the meeting.

For additional information about this application, contact Alexander Owens at (512) 239-6707.

Alexander Owens
Alexander Owens

January 7, 2025
Date

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Appendix A
Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #7 - INTERMITTENT STREAM WITH PERENNIAL POOLS

The water quality-based effluent limitations developed below are calculated using:

- Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
- Table 2, 2018 Texas Surface Water Quality Standards for Human Health, Incidental Fishery
- "Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010
- * Draft "Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2022, Appendix D

PERMIT INFORMATION

Permittee Name:	City of Sherman
TPDES Permit No.:	WQ0005334000
Outfall No.:	001 (Final Phase)
Prepared by:	Alexander Owens
Date:	06/25/2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	An unnamed ditch thence to an unnamed tributary of Harris Creek
Segment No.:	203
TSS* (mg/L):	3.4
pH* (Standard Units):	7.9
Hardness* (mg/L as CaCO ₃):	325
Chloride* (mg/L):	340
Effluent Flow for Aquatic Life (MGD):	4.98
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Chronic Aquatic Life:	100
% Effluent for Acute Aquatic Life:	100
Effluent Flow for Human Health (MGD):	4.98
Harmonic Mean Flow (cfs):	0.1
% Effluent for Human Health:	98.719

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	195893.66	0.600		1.00	Assumed
Cadmium	6.60	-1.13	998685.68	0.228		1.00	Assumed
Chromium (total)	6.52	-0.93	1061022.53	0.217		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	1061022.53	0.217		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	423355.89	0.410		1.00	Assumed
Lead	6.45	-0.80	1058807.15	0.217		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	243813.09	0.547		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	680106.17	0.302		1.00	Assumed
Zinc	6.10	-0.70	534520.98	0.355		1.00	Assumed

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION
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AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	566	250	325	192	282	598
Cadmium	27.0	0.557	118	2.45	67.9	1.89	2.77	5.86
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00400	1.38	0.00308	0.00452	0.00957
Chlorpyrifos	0.083	0.041	0.0830	0.0410	0.0476	0.0316	0.0464	0.0981
Chromium (+3)	1496	195	6893	897	3950	690	1014	2147
Chromium (+6)	15.7	10.6	15.7	10.6	9.00	8.16	11.9	25.3
Copper	43.1	25.9	105	63.2	60.3	48.7	71.5	151
Cyanide (free)	45.8	10.7	45.8	10.7	26.2	8.24	12.1	25.6
4,4'-DDT	1.1	0.001	1.10	0.00100	0.630	0.000770	0.00113	0.00239
Demeton	N/A	0.1	N/A	0.100	N/A	0.0770	0.113	0.239
Diazinon	0.17	0.17	0.170	0.170	0.0974	0.131	0.143	0.302
Dicofol	59.3	19.8	59.3	19.8	34.0	15.2	22.4	47.4
Dieldrin	0.24	0.002	0.240	0.00200	0.138	0.00154	0.00226	0.00478
Diuron	210	70	210	70.0	120	53.9	79.2	167
Endosulfan I (alpha)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan II (beta)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan sulfate	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endrin	0.086	0.002	0.0860	0.00200	0.0493	0.00154	0.00226	0.00478
Guthion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Heptachlor	0.52	0.004	0.520	0.00400	0.298	0.00308	0.00452	0.00957
Hexachlorocyclohexane (Lindane)	1.126	0.08	1.13	0.0800	0.645	0.0616	0.0905	0.191
Lead	227	8.83	1043	40.6	597	31.3	45.9	97.3
Malathion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Mercury	2.4	1.3	2.40	1.30	1.38	1.00	1.47	3.11
Methoxychlor	N/A	0.03	N/A	0.0300	N/A	0.0231	0.0339	0.0718
Mirex	N/A	0.001	N/A	0.00100	N/A	0.000770	0.00113	0.00239
Nickel	1269	141.0	2321	258	1330	199	291	617
Nonylphenol	28	6.6	28.0	6.60	16.0	5.08	7.47	15.8
Parathion (ethyl)	0.065	0.013	0.0650	0.0130	0.0372	0.0100	0.0147	0.0311
Pentachlorophenol	21.6	16.5	21.6	16.5	12.3	12.7	18.1	38.4
Phenanthrene	30	30	30.0	30.0	17.2	23.1	25.2	53.4
Polychlorinated Biphenyls (PCBs)	2.0	0.014	2.00	0.0140	1.15	0.0108	0.0158	0.0335
Selenium	20	5	20.0	5.00	11.5	3.85	5.65	11.9
Silver	0.8	N/A	29.5	N/A	16.9	N/A	24.8	52.5
Toxaphene	0.78	0.0002	0.780	0.000200	0.447	0.000154	0.000226	0.000478
Tributyltin (TBT)	0.13	0.024	0.130	0.0240	0.0745	0.0185	0.0271	0.0574
2,4,5 Trichlorophenol	136	64	136	64.0	77.9	49.3	72.4	153
Zinc	318	321	896	904	514	696	754	1597

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1150	1165	1083	1592	3369
Aldrin	1.147E-04	0.000116	0.000108	0.000158	0.000336
Anthracene	13170	13341	12407	18238	38585
Antimony	10710	10849	10090	14831	31378
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	5810	5885	5473	8045	17022
Benzidine	1.07	1.08	1.01	1.48	3.13
Benzo(a)anthracene	0.25	0.253	0.236	0.346	0.732
Benzo(a)pyrene	0.025	0.0253	0.0236	0.0346	0.0732
Bis(chloromethyl)ether	2.745	2.78	2.59	3.80	8.04
Bis(2-chloroethyl)ether	428.3	434	403	593	1254
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	75.5	76.5	71.1	104	221
Bromodichloromethane [Dichlorobromomethane]	2750	2786	2591	3808	8057
Bromoform [Tribromomethane]	10600	10738	9986	14679	31056
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	460	466	433	637	1347
Chlordane	0.025	0.0253	0.0236	0.0346	0.0732
Chlorobenzene	27370	27725	25784	37903	80189
Chlorodibromomethane [Dibromochloromethane]	1830	1854	1724	2534	5361
Chloroform [Trichloromethane]	76970	77969	72511	106591	225509
Chromium (hexavalent)	5020	5085	4729	6951	14707
Chrysene	25.2	25.5	23.7	34.8	73.8
Cresols [Methylphenols]	93010	94217	87622	128804	272504
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.02	0.0203	0.0188	0.0276	0.0585
4,4'-DDE	0.0013	0.00132	0.00122	0.00180	0.00380
4,4'-DDT	0.004	0.00405	0.00377	0.00553	0.0117
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	4730	4791	4456	6550	13858
1,2-Dibromoethane [Ethylene Dibromide]	42.4	43.0	39.9	58.7	124
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	5950	6027	5605	8239	17432
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	32990	33418	31079	45685	96655
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	22.4	22.7	21.1	31.0	65.6
1,2-Dichloroethane	3640	3687	3429	5040	10664
1,1-Dichloroethylene [1,1-Dichloroethene]	551140	558293	519212	763242	1614750
Dichloromethane [Methylene Chloride]	133330	135060	125606	184641	390635
1,2-Dichloropropane	2590	2624	2440	3586	7588
1,3-Dichloropropane [1,3-Dichloropropylene]	1190	1205	1121	1647	3486
Dicofol [Kelthane]	3	3.04	2.83	4.15	8.78
Dieldrin	2.0E-04	0.000203	0.000188	0.000276	0.000585
2,4-Dimethylphenol	84360	85455	79473	116825	247161
Di- <i>n</i> -Butyl Phthalate	924	936	870	1279	2707
Dioxins/Furans [TCDD Equivalents]	7.97E-07	8.07E-07	7.51E-07	0.0000011	0.0000023
Endrin	0.2	0.203	0.188	0.276	0.585
Epichlorohydrin	20130	20391	18964	27876	58977
Ethylbenzene	18670	18912	17588	25855	54700
Ethylene Glycol	1.68E+08	170180357	158267732	232653565	492212645

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HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.001	0.00101	0.000942	0.00138	0.00292
Heptachlor Epoxide	0.0029	0.00294	0.00273	0.00401	0.00849
Hexachlorobenzene	0.0068	0.00689	0.00641	0.00941	0.0199
Hexachlorobutadiene	2.2	2.23	2.07	3.04	6.44
Hexachlorocyclohexane (<i>alpha</i>)	0.084	0.0851	0.0791	0.116	0.246
Hexachlorocyclohexane (<i>beta</i>)	2.6	2.63	2.45	3.60	7.61
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	3.41	3.45	3.21	4.72	9.99
Hexachlorocyclopentadiene	116	118	109	160	339
Hexachloroethane	23.3	23.6	22.0	32.2	68.2
Hexachlorophene	29	29.4	27.3	40.1	84.9
4,4'-Isopropylidenediphenol [Bisphenol A]	159820	161894	150562	221325	468246
Lead	38.3	178	166	243	516
Mercury	0.122	0.124	0.115	0.168	0.357
Methoxychlor	30	30.4	28.3	41.5	87.8
Methyl Ethyl Ketone	9.92E+06	10048745	9345333	13737639	29063984
Methyl <i>tert</i> -butyl ether [MTBE]	104820	106180	98748	145159	307105
Nickel	11400	21121	19642	28874	61087
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	18730	18973	17645	25938	54875
N-Nitrosodiethylamine	21	21.3	19.8	29.0	61.5
N-Nitroso-di- <i>n</i> -Butylamine	42	42.5	39.6	58.1	123
Pentachlorobenzene	3.55	3.60	3.34	4.91	10.4
Pentachlorophenol	2.9	2.94	2.73	4.01	8.49
Polychlorinated Biphenyls [PCBs]	6.40E-03	0.00648	0.00603	0.00886	0.0187
Pyridine	9470	9593	8921	13114	27745
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.4	2.43	2.26	3.32	7.03
1,1,2,2-Tetrachloroethane	263.5	267	248	364	772
Tetrachloroethylene [Tetrachloroethylene]	2800	2836	2638	3877	8203
Thallium	2.3	2.33	2.17	3.18	6.73
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.11	0.111	0.104	0.152	0.322
2,4,5-TP [Silvex]	3690	3738	3476	5110	10811
1,1,1-Trichloroethane	7843540	7945336	7389162	10862068	22980295
1,1,2-Trichloroethane	1660	1682	1564	2298	4863
Trichloroethylene [Trichloroethene]	719	728	677	995	2106
2,4,5-Trichlorophenol	18670	18912	17588	25855	54700
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	165	167	155	228	483

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life Parameter	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)	Average of Samples (µg/L)	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)
Aldrin	1.76	2.14	-				
Aluminum	584	709	133.2	240	84.9	99.9	108
Arsenic	198	240	4.66	4.2	4.86	4.68	4.9
Cadmium	1.94	2.35	0	0	0	0	0
Carbaryl	1.17	1.43	-				
Chlordane	0.00316	0.00384	-				
Chlorpyrifos	0.0324	0.0394	-				
Chromium (+3)	710	862	0	0	0	0	0
Chromium (+6)	8.39	10.1	0	0	0	0	0
Copper	50.1	60.8	56.1	50.6	58.4	59.2	56.2
Cyanide (free)	8.47	10.2	0	0	0	0	0
4,4'-DDT	0.000792	0.000962	-				
Demeton	0.0792	0.0962	-				
Diazinon	0.100	0.121	-				
Dicofol	15.6	19.0	-				
Dieldrin	0.00158	0.00192	-				
Diuron	55.4	67.3	-				
Endosulfan (alpha)	0.0443	0.0538	-				
Endosulfan (beta)	0.0443	0.0538	-				
Endosulfan sulfate	0.0443	0.0538	-				
Endrin	0.00158	0.00192	-				
Guthion	0.00792	0.00962	-				
Heptachlor	0.00316	0.00384	-				
Hexachlorocyclohexane (Lindane)	0.0633	0.0769	-				
Lead	32.1	39.0	0	0	0	0	0
Malathion	0.00792	0.00962	-				
Mercury	1.03	1.25	0	0	0	0	0
Methoxychlor	0.0237	0.0288	-				
Mirex	0.000792	0.000962	-				
Nickel	204	248	3.43	3.47	1	4.35	4.9
Nonylphenol	5.22	6.34	-				
Parathion (ethyl)	0.0103	0.0125	-				
Pentachlorophenol	12.7	15.4	-				
Phenanthrene	17.6	21.4	-				
Polychlorinated Biphenyls (PCBs)	0.0110	0.0134	-				
Selenium	3.96	4.81	0	0	0	0	0
Silver	17.3	21.1	0	0	0	0	0
Toxaphene	0.000158	0.000192	-				
Tributyltin (TBT)	0.0190	0.0230	-				
2,4,5 Trichlorophenol	50.7	61.5	-				
Zinc	528	641	11.2875	8.7	14.8	8.05	13.6

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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Human Health Parameter	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)	Average of Samples (µg/L)	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)
Acrylonitrile	1114	1353	0	0	0	0	0
Aldrin	0.000111	0.000135	-				
Anthracene	12766	15502	0	0	0	0	0
Antimony	10382	12606	0	0	0	0	0
Arsenic	N/A	N/A	4.66	4.2	4.86	4.68	4.9
Barium	N/A	N/A	399.25	365	429	383	420
Benzene	5632	6839	0	0	0	0	0
Benzydine	1.03	1.25	0	0	0	0	0
Benzo(a)anthracene	0.242	0.294	0	0	0	0	0
Benzo(a)pyrene	0.0242	0.0294	0	0	0	0	0
Bis(chloromethyl)ether	2.66	3.23	0	0	0	0	0
Bis(2-chloroethyl)ether	415	504	0	0	0	0	0
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	73.1	88.8	0	0	0	0	0
Bromodichloromethane [Dichlorobromomethane]	2665	3237	0	0	0	0	0
Bromoform [Tribromomethane]	10275	12477	0	0	0	0	0
Cadmium	N/A	N/A	0	0	0	0	0
Carbon Tetrachloride	445	541	0	0	0	0	0
Chlordane	0.0242	0.0294	-				
Chlorobenzene	26532	32217	-				
Chlorodibromomethane [Dibromochloromethane]	1773	2154	-				
Chloroform [Trichloromethane]	74613	90602	-				
Chromium (hexavalent)	4866	5909	0	0	0	0	0
Chrysene	24.4	29.6	-				
Cresols [Methylphenols]	90162	109483	-				
Cyanide (free)	N/A	N/A	0	0	0	0	0
4,4'-DDD	0.0193	0.0235	-				
4,4'-DDE	0.00126	0.00153	-				
4,4'-DDT	0.00387	0.00470	-				
2,4'-D	N/A	N/A	-				
Danitrol [Fenpropathrin]	4585	5567	-				
1,2-Dibromoethane [Ethylene Dibromide]	41.1	49.9	-				
m-Dichlorobenzene [1,3-Dichlorobenzene]	5767	7003	-				
o-Dichlorobenzene [1,2-Dichlorobenzene]	31980	38833	-				
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	-				
3,3'-Dichlorobenzidine	21.7	26.3	-				
1,2-Dichloroethane	3528	4284	-				
1,1-Dichloroethylene [1,1-Dichloroethene]	534269	648755	-				
Dichloromethane [Methylene Chloride]	129248	156944	-				
1,2-Dichloropropane	2510	3048	-				
1,3-Dichloropropene [1,3-Dichloropropylene]	1153	1400	-				
Dicofol [Kelthane]	2.90	3.53	-				
Dieldrin	0.000193	0.000235	-				
2,4-Dimethylphenol	81777	99301	-				
Di-n-Butyl Phthalate	895	1087	-				
Dioxins/Furans [TCDD Equivalents]	7.72E-07	9.38E-07	-				
Endrin	0.193	0.235	-				
Epichlorohydrin	19513	23695	-				
Ethylbenzene	18098	21976	-				
Ethylene Glycol	162857495	197755530	-				
Fluoride	N/A	N/A	752.5	710	780	670	850
Heptachlor	0.000969	0.00117	-				

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Human Health <i>Parameter</i>	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)	Average of Samples (µg/L)	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)
Heptachlor Epoxide	0.00281	0.00341	-				
Hexachlorobenzene	0.00659	0.00800	-				
Hexachlorobutadiene	2.13	2.58	-				
Hexachlorocyclohexane (<i>alpha</i>)	0.0814	0.0988	-				
Hexachlorocyclohexane (<i>beta</i>)	2.52	3.06	-				
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	3.30	4.01	-				
Hexachlorocyclopentadiene	112	136	-				
Hexachloroethane	22.5	27.4	-				
Hexachlorophene	28.1	34.1	-				
4,4'-Isopropylidenediphenol [Bisphenol A]	154927	188126	-				
Lead	170	207	0	0	0	0	0
Mercury	0.118	0.143	0	0	0	0	0
Methoxychlor	29.0	35.3	-				
Methyl Ethyl Ketone	9616347	11676993	-				
Methyl <i>tert</i> -butyl ether [MTBE]	101611	123385	-				
Nickel	20211	24543	3.43	3.47	1	4.35	4.9
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	-				
Nitrobenzene	18156	22047	-				
N-Nitrosodiethylamine	20.3	24.7	-				
N-Nitroso-di- <i>n</i> -Butylamine	40.7	49.4	-				
Pentachlorobenzene	3.44	4.17	-				
Pentachlorophenol	2.81	3.41	-				
Polychlorinated Biphenyls [PCBs]	0.00620	0.00753	-				
Pyridine	9180	11147	-				
Selenium	N/A	N/A	0	0	0	0	0
1,2,4,5-Tetrachlorobenzene	2.32	2.82	-				
1,1,2,2-Tetrachloroethane	255	310	-				
Tetrachloroethylene [Tetrachloroethylene]	2714	3295	-				
Thallium	2.22	2.70	-				
Toluene	N/A	N/A	-				
Toxaphene	0.106	0.129	-				
2,4,5-TP [Silvex]	3577	4343	-				
1,1,1-Trichloroethane	7603448	9232758	-				
1,1,2-Trichloroethane	1609	1954	-				
Trichloroethylene [Trichloroethene]	696	846	-				
2,4,5-Trichlorophenol	18098	21976	-				
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	-				
Vinyl Chloride	159	194	-				

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION
TPDES Permit No. WQ0005334000

Appendix B
Comparison of Effluent Limits

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based), calculated/assessed water quality-based effluent limitations (Water Quality-Based), and effluent limitations in the existing permit (Existing Permit). Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	Pollutant	Technology-Based		Water Quality-Based		Existing Permit	
		Daily Avg	Daily Max	Daily Avg	Daily Max	Daily Avg	Daily Max
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
001, Phase I	Flow, MGD	-	-	-	-	2.73	3.83
	Total Copper ¹	-	-	Report	Report	-	-
	Total Copper ²	-	-	0.072	0.151	-	-
	pH, SU	6.0, minimum	9.0, maximum	-	-	6.0, minimum	9.0, maximum
		-	-	-	-	-	-
001, Phase II	Flow, MGD	-	-	-	-	3.49	4.89
	Total Copper ³	-	-	Report	Report	-	-
	pH, SU	6.0, minimum	9.0, maximum	-	-	6.0, minimum	9.0, maximum
		-	-	-	-	-	-
001, Final Phase	Flow, MGD	-	-	-	-	4.98	6.97
	Total Copper ³	-	-	Report	Report	-	-
	pH, SU	6.0, minimum	9.0, maximum	-	-	6.0, minimum	9.0, maximum

¹ Effective beginning upon the date of permit issuance and lasting for 365 days.

² Effective beginning upon 366 days from the date of permit issuance and lasting until the date of permit expiration.

³ This monitoring requirement self-expires on October 12, 2027