

Draft of April 9, 2026

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
PERMIT TO SUPPLY RECLAIMED WATER**

PERMIT NUMBER: RW24-012

ID NUMBER: S20413

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, Title 27A Oklahoma Statutes (O.S.) § 2-6-201 *et seq.*, as amended, and the rules of the Oklahoma Department of Environmental Quality (DEQ) promulgated thereunder (see the Oklahoma Administrative Code (OAC) 252:619, 252:627, and 252:656),

Tupelo Public Works Authority
P.O. Box 360
Tupelo, OK 74572

is hereby authorized to supply and reuse treated municipal wastewater, also known as reclaimed water, from Tupelo Wastewater Treatment Plant (TRL-5) located at approximately

Latitude: 34° 36' 25.027" N [GPS: NAD83]
Longitude: 96° 24' 47.923" W [GPS: NAD83]

for reuse of reclaimed water within the boundaries of the permitted water reuse site(s) located at approximately

NE¼, NW¼, NE¼
Section 36, Township 2 North, Range 8 West, IM
Coal County, Oklahoma

in accordance with the limitations, monitoring requirements, and other conditions set forth in Parts I and II hereof.

The reclaimed water shall be used solely for the purpose of irrigation at the permitted water reuse site, in accordance with applicable DEQ regulations.

This is a new permit.

The issuance date of this permit is Month Date, Year.

This permit shall become effective Month Date, Year.

This permit and the authorization to supply treated wastewater shall expire at midnight Month Date, Year.

For the Oklahoma Department of Environmental Quality:

Michael B. Moe, P.E., Manager
Municipal Discharge and Stormwater Permits Section
Water Quality Division

George Russell IV, Director
Water Quality Division

PART I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS FOR CATEGORY 5 RECLAIMED WATER

A. LIMITATIONS AND MONITORING REQUIREMENTS

Beginning the effective date and lasting through the expiration date of the permit, the permittee is authorized to supply Category 5 reclaimed water for reuse at the following water reuse sites:

1. Authorized Water Reuse Site

Site ID	Legal Description	Irrigation Method	Total Area (Acres)	Irrigated Area (Acres)
R01 ^a	NE¼, NW¼, NE¼ of Section 36, Township 2 North, Range 8 East, Indian Meridian, Coal County, Oklahoma	Fixed Sprinkler	13.8	10.11

^a Owned and operated by the Tupelo Public Works Authority.

2. Limitations and Monitoring Requirements

The Category 5 reclaimed water shall be supplied from the final cell of the total retention lagoon system for irrigation of pastureland, and the following limitations and monitoring requirements:

Site ID	Parameter	Monitoring Requirements ^a	Monitoring Frequency ^b	Sample Type	Monitoring Location
R01	Flow (gpd)	Record	Daily	Totalized	Pump Station

^a When there is no supply of reclaimed water for the entire day, report “0” in the Monthly Operating Report (MOR), and write “No Supply” in the comment’s column.

^b In accordance with OAC 252:656-25-2(h), flow measurement for each water reuse sites shall be accomplished by flow meters, or the calibration of pumps and installation of run-time meters. When no pumps are used, as with gravity flow lines, flow shall be calculated using the on and off times.

3. Prevention of Unauthorized Access to Water Reuse Site

The permittee shall ensure that all permitted water reuse site(s) are always completely fenced to prevent unauthorized access to the reuse site in accordance with OAC 252:627-3-4(a). Fences with locked gates are currently installed and should be maintained at both the WWTF and Site R01.

4. Signage Requirements

The permittee shall comply with the following signage requirements:

- a. All reclaimed water piping located outside the fenced water reuse area shall be identified with above-ground signs containing the language “CAUTION: RECLAIMED WATER - DO NOT DRINK” together with the international “Do Not Drink” symbol:
 - i. every 300 feet.
 - ii. at every change in direction.
 - iii. in the road easement on both sides of the road at every road crossing; and
 - iv. at every outlet.

- b. All signs which describe the nature of the facility and advice against trespassing shall be posted on the perimeter of each permitted water reuse site(s). The required signage is currently posted and shall be maintained at the water reuse site.

B. RESTRICTIONS FOR USING RECLAIMED WATER

1. The permittee shall not irrigate with Category 5 reclaimed water:
 - a. from a lagoon cell that receives raw sewage;
 - b. from any cell other than the one specified in the permit;
 - c. on any food crop that may be consumed raw;
 - d. on grain crops such as corn, wheat and oats, less than 30 days before harvest;
 - e. at rates that allow a discharge from the permitted water reuse site;
 - f. within 100 feet of the permitted boundary of the site;
 - g. at a rate that exceeds the nitrogen and phosphorus rates for the crop grown at the site;
 - h. at a rate that results in phytotoxicity;
 - i. when the reclaimed water has a dissolved oxygen concentration of less than 2.0 mg/L;
 - j. during periods of precipitation or while the soil is saturated or frozen;
 - k. on land having a slope greater than 5%; and
 - l. where there are berms or other barriers on a water reuse site that would cause the pooling or ponding of reclaimed water at the water reuse site, nor shall any berms or barriers impede the natural flow of stormwater from the site.
2. The systems shall be designed to ensure that direct and wind-blown spray from irrigation systems and other sources are confined to the designated irrigation areas. Category 5 reclaimed water systems shall also be designed to comply with the following minimum buffer zones and setback distances, with all distances being measured from the edge of the wetted perimeter of the irrigation area to the edge of the following features:
 - (1) 300 feet from public wells.
 - (2) 50 feet from private water wells.
 - (3) 50 feet from creeks, lakes, ponds, and other water of the state. and
 - (4) 100 feet from adjacent property lines.
3. The permittee must obtain a permit to construct and a permit to supply reclaimed water from DEQ before supplying reclaimed water to any user(s) or sites not authorized in this permit. The permittee will provide information to DEQ on the intended use of the reclaimed water by the new user(s), and if applicable, information on specific land application site(s) demonstrating that the requirements of OAC 252:627-3-4 for Category 5 reclaimed water are met.

C. RECORDKEEPING OF MONITORING RESULTS, OPERATION, AND MAINTENANCE

1. Monthly Operating Reports

- a. The permittee shall complete DEQ Form 627-001 "Water Reuse System Monthly Operation Report" ("MOR") for each month for each reuse site in accordance with OAC 252:627-5-1(b). The permittee shall **retain MORs on site for 3 years**, as well as all records, including all maintenance records, and make them available for review by DEQ upon request in accordance with OAC 252:627-5-1(d) and (e).
- b. The permittee shall complete DEQ Form 619-001 "Total Retention Lagoon Monthly Operation Report" ("MOR") for each month for each reuse site. The permittee shall **retain MORs on site for 3 years** and make them available for review by DEQ upon request in accordance with OAC 252:619-1-4(f).

2. Record Keeping Requirements for Commercial Fertilizer

The permittee shall keep a record of the commercial fertilizer applied at each site for the life of the permit in the following format. These records shall be made available to DEQ on request.

Site Name: _____

Date	Acres Fertilized	Composition of Fertilizer (Nitrogen, Phosphorus, Potassium)	Quantity of Fertilizer Applied (lb)

D. RE-OPENER CLAUSE

This permit may be reopened for modification and/or reissuance to require additional or more frequent monitoring, additional or more stringent limits, additional operational controls, or additional reporting and recordkeeping requirements where actual or potential threats to public health or the environment are determined to be the result of the permittee’s operation of the water reuse system or where the water reuse system is not being properly operated and maintained in accordance with OCA 252:627. Modification and/or reissuance of the permit shall follow regulations listed at OAC 252:004.

E. SCHEDULE OF COMPLIANCE FOR SIGNAGE

The permittee shall achieve compliance in accordance with the following schedule:

	Task	Date Due
1.	Complete the installation of a flow meter or run time meter for Site R01.	Six (6) months from the effective date of the permit
2.	Send notice of completion of Tasks 1, to the Ada DEQ office with a copy to the ECLS Total Retention Lagoon Section at DEQ.	Seven (7) months from the effective date of the permit

PART II. OTHER PERMIT REQUIREMENTS

A. GENERAL PROVISIONS

The following general provisions for supply of reclaimed water (treated wastewater) must be met in accordance with OAC 252:656-27-2:

- 1. Prohibition against cross connections.** Neither the supplier nor the user shall allow physical connections between the reclaimed water lines and the public water supply lines.
- 2. Flow measuring devices.** The permittee shall provide flow measuring devices to measure the amount of reclaimed water being distributed to each water reuse site. Flow measurement devices shall have recording, totalizing and instantaneous indicating capabilities.

B. OPERATION AND MAINTENANCE OF THE DISTRIBUTION SYSTEMS

The distribution system for reclaimed water shall be operated and maintained in accordance with the following requirements:

- 1. Piping.** All reclaimed water piping, valves, outlets and appurtenances in distribution systems shall be colored **purple** (Pantone 522) and shall be embossed or integrally stamped with a warning that includes the following:

“CAUTION: RECLAIMED WATER – DO NOT DRINK”

For all pipes, the warning shall be located on opposite sides of all pipes and repeated every 3 feet or less.

- 2. Treated wastewater flushing system.** Reclaimed water distribution systems shall be designed with all appurtenances necessary to adequately flush the distribution system to prevent slime growth and the regrowth of pathogens. Flushing plans shall be maintained and followed for all reclaimed water distribution systems. The flushing system shall include provisions for disposal of flushed reclaimed water that prevent bypasses and discharges to waters of the state or elsewhere.
- 3. Maintenance.** The permittee shall maintain the structural integrity of all parts of the reclaimed water distribution systems and maintain it in good working order.
- 4. Pump station.** The permittee shall ensure that pump stations are properly maintained and operated by doing the following:
 - a. Securing pump station(s) to prevent unauthorized access.
 - b. Maintaining pump(s) in working condition.
 - c. Keeping screen(s) free of debris to prevent clogging.
 - d. Maintaining the required alarms in working order.
 - e. Maintaining the required back-up generators and/or portable engine driven pumps in working order.
 - f. Maintaining a complete set of operational instructions, emergency procedures and maintenance schedules.