

DRAFT

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

**PERMIT NUMBER: RW25-003**

**ID NUMBER: S21520**

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, Title 27A OS § 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) 252:627 and 252:656),

Talala Public Works Authority  
P.O. Box 52  
Talala, OK 74080

is hereby authorized to supply treated municipal wastewater, also known as reclaimed water, from the Talala Wastewater Treatment Plant (TLR-5) located at approximately

Latitude: 36° 31' 08.32" N [GPS: NAD83]  
Longitude: 95° 42' 24.93" W [GPS: NAD83]

for reuse within the boundaries of the permitted irrigation site located at approximately

SE¼, NE¼ of Section 33,  
Township 24 North, Range 15 East, I.M.  
Rogers County, Oklahoma

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

The reclaimed water shall be used solely for the purpose of irrigation at the permitted land application sites, 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:

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

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Shellie R. Chard, Director  
Water Quality Division

## PART I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

### A. LIMITATIONS AND MONITORING REQUIREMENTS FOR CATEGORY 5 RECLAIMED WATER

#### 1. Authorized Land Application Sites for Category 5 Reclaimed Water

Site ID	Legal Description	Method of Irrigation	Approximate Total Area (Acres)	Approximate Irrigated Area (Acres)
R01	SE¼, NE¼ of Section 33, Township 24 North, Range 15 East, I.M. Rogers County, Oklahoma	Fixed Impact Sprinkler	53	40

#### 2. Limitations and Monitoring Requirements for Category 5 Reclaimed Water Reuse <sup>a, b</sup>

Beginning the effective date of the permit through the expiration date of the permit, the permittee is authorized to supply Category 5 reclaimed water (municipal wastewater after primary treatment in a total retention lagoon system) (TLR-5) accordance with OAC 252:656 and OAC 252:627. The Category 5 reclaimed water shall be supplied from the final cell of the Talala WWTP (TRL-5) for irrigation of pastureland in accordance with OAC 252:656, OAC 252:627, and the following limitations and monitoring requirements:

Site ID	Parameter	Monitoring Requirements	Monitoring Frequency	Sample Type	Monitoring Location
R01 <sup>a</sup>	Flow (gpd)	Record <sup>b</sup>	Daily <sup>c</sup>	Totalized	Pump Station <sup>d</sup>

<sup>a</sup> Site owned and operated by the Talala Public Works Authority (PWA).

<sup>b</sup> When there is no supply of reclaimed water for the entire day, report “0” in the Water Reuse Monthly Operating Report (MOR), and write “No Supply” in the comments column.

<sup>c</sup> Flow measurement for each land application site 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.

<sup>d</sup> Pump station located at latitude 36° 31' 08.32" N, longitude 95° 42' 24.93" W (GPS: NAD 1983).

In accordance with OAC 252:627-5-1(b), (d), and (e), the supplier shall complete DEQ Form 627-001 – Water Reuse Monthly Operating Report for each land application site and maintain the MORs on-site for at least three (3) years and make them available for review by DEQ upon request.

#### 3. Prevention of Unauthorized Access to Land Application Sites

The permittee shall ensure that all permitted land application sites are completely fenced at all times with locked gates to prevent unauthorized access in accordance with OAC 252:627-3-4(a).

#### 4. Signage Requirements

Beginning seven months from the effective date of the permit, the permittee shall comply with the following signage requirements:

- In accordance with OAC 252:656-27-4(a)(3), all reclaimed water piping located outside the fenced land application 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. In accordance with OAC 252:627-3-4(a)(2), signs which describe the nature of the facility and advise against trespassing shall be posted on the perimeter of each permitted reclaimed water application site.

The required signage is not currently posted. The permittee shall post signs in accordance with the compliance schedule in Part I.C of this permit.

## **B. RESTRICTIONS**

1. In accordance with OAC 252:627-3-4(b), irrigation with Category 5 reclaimed water is prohibited:
  - 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 thirty (30) days before harvest;
  - e. at rates that allow a discharge from the permitted water reuse site;
  - f. within one hundred feet (100') 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 five percent (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. In accordance with OAC 252:656-27-2(b), 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:
  - a. three hundred feet (300') from public wells;
  - b. fifty feet (50') from private water wells;
  - c. fifty feet (50') from creeks, lakes, ponds, and other water of the state;
  - d. one hundred feet (100') 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 must 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. SCHEDULE OF COMPLIANCE FOR FLOW MEASUREMENT

The permittee shall achieve compliance with the following schedule for flow measurement:

	Task	Due Date
1.	Complete the installation of a run-time meter for Site R01.	Six (6) months from the effective date of the permit.
2.	Complete the installation of the required signage.	Six (6) months from the effective date of the permit.
3.	Send notice of completion of Task 1 and Task 2 to the Tulsa DEQ office, with copy to the Total Retention Lagoon Enforcement Section of the ECLS Division of DEQ.	Seven (7) months from the effective date of the permit

### D. RECORDKEEPING OF MONITORING RESULTS

#### 1. Retain DEQ Form 627-001

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). Suppliers 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).

#### 2. Retain DEQ Form 619-001

The permittee shall complete DEQ Form 619-001 “Total Retention Lagoon Monthly Operation Report” (“MOR”) for each month for each reuse site. Suppliers shall **retain MORs on site for 3 years** and make them a

#### 3. Record Keeping Requirements for Commercial Fertilizer

In compliance with OAC 252:627-3-4(b)(7), the permittee is required to keep 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 the DEQ on request.

Site Name: \_\_\_\_\_

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

### E. 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.

## **PART II. OTHER PERMIT REQUIREMENTS**

**A.** 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 (treated wastewater) lines and the public water supply lines. The supplier and the user shall follow the requirements of OAC 252:626-5-15 and OAC 252:656-9-2.
- 2. Flow measuring devices.** Supplier shall provide flow measuring devices to measure the amount of treated water being distributed to each user. Flow measurement devices shall have recording, totalizing and instantaneous indicating capabilities.

### **B. DISTRIBUTION SYSTEMS**

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

- 1. Piping.** All reclaimed water (treated wastewater) 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 three feet (3') or less.

- 2. Treated wastewater flushing system.** Treated wastewater distribution system shall be designed with all appurtenances necessary to adequately flush the distribution system to prevent slime growth and the regrowth of pathogens. Flushing plan shall be maintained and followed for all treated wastewater distribution systems. The flushing system shall include provisions for disposal of flushed treated wastewater 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 treated wastewater distribution system and maintain it in good working order.
- 4. Pump stations.** The permittee shall ensure that pump stations are properly maintained and operated by doing the followings:
  - 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.