

January 12, 2026

Brad Schmidt, Public Works Director
Shawnee Municipal Authority
P.O. Box 1448
Shawnee, Oklahoma 74802-1488

Re: General Permit No. OKLAS250021 – Approved
Land Application of Biosolids
Shawnee Municipal Authority Northside Wastewater Treatment Plant
Facility No. S-20590
OPDES Permit No. OK0037893

Dear Mr. Gammill:

The Oklahoma Department of Environmental Quality (DEQ), Water Quality Division (WQD) is enclosing the authorization, No. OKLAS250021, to operate in compliance with the OK65S General Permit, for a one-time land application of biosolids from the Shawnee Municipal Authority (Authority) Northside Wastewater Treatment Facility (WWTP). Biosolids will be removed in liquid form from the existing overflow basin and associated structures and transported to approved land application sites when weather and cropping conditions allow. The biosolids will be applied using liquid application equipment through subsurface injection or surface application with soil incorporation. The Authority's application for this authorization was submitted to DEQ on November 20, 2025. On December 23, 2025, DEQ received supplemental documents to the Authority's application.

This authorization is approved in accordance with requirements of Oklahoma Administrative Code (OAC) 252:606, as adopted and promulgated pursuant to the Environmental Code, 27A Oklahoma Statute.

The authorization is for a one-time application of biosolids to the following site:

- Site 1: 103.42 acres located within the NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$; NW $\frac{1}{4}$, SW $\frac{1}{4}$; and E $\frac{1}{2}$, SW $\frac{1}{4}$ of Section 21, Township 11 North, Range 4 East of the Indian Meridian, Tecumseh County, Oklahoma
- Site 2: 97.96 acres located within the W $\frac{1}{2}$, NE $\frac{1}{4}$, NE $\frac{1}{4}$ and S $\frac{1}{2}$, NE $\frac{1}{4}$ of Section 21, Township 11 North, Range 4 East of the Indian Meridian, Tecumseh County, Oklahoma
- Site 3: 158 acres located within the SE $\frac{1}{4}$ of Section 21, Township 11 North, Range 4 East of the Indian Meridian, Tecumseh County, Oklahoma

The biosolids operation authorized by this document should be maintained in accordance with the DEQ General Permit. DEQ must approve any deviation from this authorization in writing before changes can be made.

General Permit No. OKLAS250021 – Approved
Shawnee Municipal Authority Northside Wastewater Treatment Plant
Facility No. S-20590
January 12, 2026
Page 2 of 2

I am returning a copy of the signed Authorization for your records. Please feel free to contact me at (405) 702-8214 if you have any questions or concerns.

Sincerely,



Tu Nguyen, E.I., District Representative
Municipal Wastewater Enforcement Section
Water Quality Division
Oklahoma Department of Environmental Quality

Enclosure: As stated

TN/MM/lv TWH/CG

cc: Aaron Gruenewald, Managing Director, Hodges Farms and Dredging
 Kory Collier, Environmental Specialist, ECLS, Tecumseh DEQ Office
 Cassandra Atwood, Regional Manager, ECLS, DEQ

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR ONE TIME LAND APPLICATION OF SEWAGE SLUDGE
UNDER GENERAL PERMIT NO. GP-OK65S
AUTHORIZATION NO. OKLAS250021OKLAS245002113OKLAS250021**

In compliance with Oklahoma Statute, 27A § 2-14-305 as amended, and the Rules of the Oklahoma Department of Environmental Quality (DEQ) promulgated thereunder, and in reliance on the certified statement and representation heretofore made in its application:

Shawnee Municipal Authority
P.O. Box 1448
Shawnee, Oklahoma 74802-1488
Facility No. S-20590

is hereby authorized for a one-time land application of biosolids from the Shawnee Municipal Authority (Authority) Northside Wastewater Treatment Facility to the following site:

- Site 1: 103.42 acres located within the NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$; NW $\frac{1}{4}$, SW $\frac{1}{4}$; and E $\frac{1}{2}$, SW $\frac{1}{4}$ of Section 21, Township 11 North, Range 4 East of the Indian Meridian, Tecumseh County, Oklahoma
- Site 2: 97.96 acres located within the W $\frac{1}{2}$, NE $\frac{1}{4}$, NE $\frac{1}{4}$ and S $\frac{1}{2}$, NE $\frac{1}{4}$ of Section 21, Township 11 North, Range 4 East of the Indian Meridian, Tecumseh County, Oklahoma
- Site 3: 158 acres located within the SE $\frac{1}{4}$ of Section 21, Township 11 North, Range 4 East of the Indian Meridian, Tecumseh County, Oklahoma

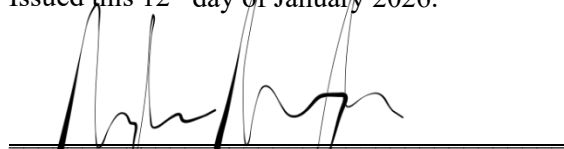
whose site-specific and land application site conditions conform to and are in accordance with residuals characteristics, monitoring requirements and other conditions set forth in Part I of this Authorization.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibilities regarding beneficial reuse of biosolids, except with respect to the permittee's legal responsibility under the Environmental Code and Rules promulgated by the Board of Environmental Quality to obtain this permit.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This is to certify that the proposed beneficial reuse of biosolids set forth in this Authorization meets the requirements of the DEQ Rules, provided the permittee does not exceed the loading rates and/or metal concentrations set forth in this Authorization.

Issued this 12th day of January 2026.



Myles Mungle, P.E., Engineering Manager
Municipal Wastewater Enforcement Section
Water Quality Division
Oklahoma Department of Environmental Quality

Note: Expiration date is upon completion of existing biosolids removal from the Seminole Municipal Authority Northside Wastewater Treatment Facility.

PART I: MONITORING, LOADING RATES, METAL CONCENTRATIONS AND OTHER REQUIREMENTS.

SECTION A - MONITORING REQUIREMENTS

During the period beginning on the effective date and lasting through the expiration date of this Authorization, the Permittee shall monitor all land application of sewage sludge in accordance with the following schedule.

Pollutants shall be monitored at the frequency schedule(s) shown below:

Amount of Sewage Sludge* (Metric tons/365-day period)	Frequency
0 ≥ Sludge ≤ 290	Once/Year
290 ≥ Sludge ≤ 1,500	Once/Quarter
1,500 ≥ Sludge ≤ 15,000	Once/Two Months
15,000 ≥ Sludge	Once/Month

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

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 C.F.R. § 503.8 (b)

The required monitoring results shall be retained for the period of the Authorization. The results shall be submitted to the Department as follows:

SAMPLING FREQUENCY	REPORTING DEADLINE(S)
Yearly	
January	February 28
Quarterly	
January, February, and March	April 28
April, May, and June	July 28
July, August, and September	October 28
October, November, and December	January 28
Bi-monthly	
January - February	March 28
March - April	May 28
May - June	July 28
July - August	September 28
September - October	November 28
November - December	January 28
Monthly Sampling	Due the 28th of the following month

SECTION B – LOADING RATES AND METAL CONCENTRATIONS

In addition to all other requirements and conditions of this General Permit, the Permittee is authorized to land apply sewage sludge only upon the condition that the pollutant ceiling concentration and cumulative pollutant loading rate shall not exceed the listed numerical limits.

Metal concentrations of sewage sludge - Sewage sludge shall not be applied to the land if the concentration of any of the pollutants exceeds the following pollutant concentrations:

TABLE 1	
Pollutant	Ceiling Concentrations (milligrams per kilogram)*
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

*Dry Weight Basis

Cumulative Pollutant Loading Rate Limits:

TABLE 2	
Pollutant	Cumulative Pollutant Loading Rate (kilograms per hectare)
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Molybdenum	Monitor
Nickel	420
Selenium	100
Zinc	2800

All bulk sewage sludge which is applied to agricultural land, forest, or a reclamation site shall be treated by either Class A or Class B pathogen reduction requirements as defined in Part I Section 1.B.5 of the General Permit. The Permittee may land apply sewage sludge only during the effective date of this Authorization and shall immediately cease and desist any and all land application of sewage sludge made pursuant to such Authorization upon its expiration or at any time the required monitoring indicates that the cumulative loading rate is greater than the allowable rate set forth in this Authorization.

PART II: SPECIAL AND STANDARD CONDITIONS**SECTION A – SPECIAL CONDITIONS**

1. There shall be no runoff or discharge from the land application site.
2. The commingling of sewage sludge with any other type of sludge or wastewater intended for land application is not allowed under this Authorization. Sludge which results from the commingling of sewage and any other additive shall not be land applied under this Authorization.
3. Special conditions and/or modification for specific land application sites will be included in the Authorization as necessary to protect the waters of the State.
4. When storage of sewage sludge is necessary, prior to land application, the sludge must be stored in a manner to prevent pollution to the waters of the State.
5. The Permittee is hereby given notice that this Authorization is in all respects subject to compliance with any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the State of Oklahoma and the Board of Environmental Quality's Rules. The absence of any express reference within this Authorization to any particular statutory requirement, rule(s) or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s) and standard(s) to this Authorization or the Permittee. By approval, grant and issuance of this Authorization, Permittee acknowledges receipt of true, correct, and current copies of the Board of Environmental Quality's rules (as amended) provided, however, that Permittee further acknowledges that any and all amendments thereto shall become part of this Authorization.

SECTION B – S TANDARD CONDITIONS

1. Duty to reapply: If the Permittee wishes to continue an activity regulated by this Authorization after the expiration date of said Authorization, the Permittee must reapply for and obtain a new Authorization. Application for renewal shall be submitted at least ninety (90) days before the expiration date of the original Authorization. The Department may grant permission to submit a renewal application out of time but not later than the original Authorization expiration date.
2. Duty to provide information: The Permittee shall furnish to the Department, within reasonable time, any information which the Department may request to determine whether cause exists for modifying or revoking the Authorization, or to determine compliance with the Authorization.
3. Facilities operation: All facilities and equipment used by the Permittee shall be operated as efficiently as possible and be maintained in good working order so as to achieve compliance with the terms and conditions of this Authorization.
4. Right to entry: The Permittee shall allow any representative of the Department, upon presentation of credentials to a responsible person to:
 - a. Enter upon the Permittee's premises where sewage sludge is being land applied or where any records are required to be kept under the terms and conditions of the permit.
 - b. At reasonable times have access to and copy any records required to be kept under the terms and conditions of this Authorization; to inspect any equipment utilized in the

land application of the sewage sludge; to take photographs; and to sample the sewage sludge being land applied or the soil at the land application site.

- c. Enter upon the Permittee's premises to examine and inspect any facilities and equipment covered under the terms of the permit.
5. Monitoring and reporting: All monitoring and reporting shall be in accordance with Part I, Section A of the Authorization.
6. Noncompliance notification: If, for any reason, the Permittee does not comply with or is unable to comply with any term(s) or condition(s) of the permit, the Permittee shall within five (5) days of becoming aware of such condition(s), provide the Department with the following information in writing:
 - Description of the noncompliance and the cause; and
 - The period of noncompliance, including exact dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.
7. Sludge application limitations: Sewage sludge shall not be applied to any site which is flooded, frozen, snow covered or within 10 meters of any water of the United States.