



Missouri Department of dnr.mo.gov

# NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

March 4, 2021

Mike Forsee  
Director of Public Works & Utilities  
City of Centralia  
114 South Rollins Street  
Centralia, MO 65240-1367

RE: C295860-01 City of Centralia, Missouri – Centralia Wastewater System Improvements, Wastewater Treatment Facility, MO-0028789, Construction Permit No. CP0002212, Boone & Audrain Counties

Dear Mike Forsee:

The Missouri Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by Bartlett & West for the City of Centralia. Please find enclosed a copy of the Construction Permit No. CP0002212. A set of approved plans and specifications will be sent under a separate cover by my staff at a later date. You must maintain these with your official project file for a minimum of 4 years following completion of the project

This permit will terminate 24 months from the date of issuance. In accordance with 10 CSR 20-6.010(5)(J), the Department may grant an extension. If you believe that an extension is necessary, you must submit a request and a justification in writing for the extension at least 30 days prior to the permit expiration date.

This construction permit does not supersede any requirements of the operating permit or enforcement actions. Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250, RSMo. To appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Contact information for the AHC is: Administrative Hearing Commission, United States Post Office Building., Third Floor, 131 West High Street, P.O. Box 1557, Jefferson City, MO 65102, Phone: 573-751-2422, Fax: 573-751-5018, and Website: [ahc.mo.gov/](http://ahc.mo.gov/).



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If you have any questions concerning this matter, please contact Joshua Brown, of the Water Protection Program, at 573-526-2415 or Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Thank you for your efforts to help ensure clean water in Missouri.

Sincerely,

WATER PROTECTION PROGRAM



Conrad Blume, P.E., Clean Water Engineering Unit Chief  
Financial Assistance Center

CB:jbc

Enclosures

c: Matt Vander Tuig, P.E., Bartlett & West  
Northeast Regional Office  
Joshua Brown, Water Protection Program, Financial Assistance Center  
Shane Graupman, Water Protection Program, Financial Assistance Center

**STATE OF MISSOURI**  
**DEPARTMENT OF NATURAL RESOURCES**  
**MISSOURI CLEAN WATER COMMISSION**



**CONSTRUCTION PERMIT**

The Missouri Department of Natural Resources hereby issues a permit to:

Centralia Wastewater Treatment Facility  
114 South Rollins Street  
Centralia, MO 65240

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo., and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources.

As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

March 4, 2021

Effective Date

Handwritten signature of Edward B. Galbraith in cursive.

Edward B. Galbraith, Director, Division of Environmental Quality

March 3, 2023

Expiration Date

Handwritten signature of Chris Wieberg in cursive.

Chris Wieberg, Director, Water Protection Program



## **CONSTRUCTION PERMIT**

### **I. CONSTRUCTION DESCRIPTION**

The wastewater treatment facility project will consist of the expansion of the currently implemented wastewater irrigation treatment, alongside with the associated structures needed to do that expansion. This expansion will also allow for the removal of the overland flow component of the wastewater treatment facility, as the wastewater does not meet the discharge limits needed to keep that process in compliance. The proposed facility expansion will have a design average flow of 806,000 gallons per day and includes the following additions:

- Construction of 474 ac-ft of storage between three new storage basins, both on city-owned and private property;
- Construction of pump houses at the new storage basins;
- Addition of 922 acres of land to be wastewater irrigated, 92 acres being irrigated on city-owned land and the other 830 acres being irrigated on privately-owned land split between two different landowners;
- Pump replacements at city's northeast and northwest lagoon cells to upgrade pumping capacity;
- Installation of transmission pipeline extensions to connect to the newly constructed storage basins; and
- Installation of a parallel transmission pipeline out of the northwest lagoon pump station to increase capacity.

This project will also include general site work appropriate to the scope and purpose of the project and all necessary appurtenances to make a complete and usable wastewater treatment facility.

### **II. COST ANALYSIS FOR COMPLIANCE**

Pursuant to Section 644.145, RSMo., when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a "finding of affordability" on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a Cost Analysis for Compliance. Permits that do not include new requirements may be deemed affordable.

The Department is not required to determine Cost Analysis for Compliance because the permit contains no new conditions or requirements that convey a new cost to the facility.

### **III. CONSTRUCTION PERMIT CONDITIONS**

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be in accordance with the plans and specifications submitted by Bartlett & West on August 21, 2020, and signed and sealed by Matthew Vander Tuig, P.E. on August 20, 2020, and approved by the Department on March 4, 2021.
3. Regulation 10 CSR 20-4.040(18)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.
4. The Department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).
5. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 19 of this rule.
6. State and federal law does not permit bypassing of raw wastewater; therefore, steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department's electronic Sanitary Sewer Overflow/Bypass Reporting system at <https://dnr.mo.gov/mogem/> or Northeast Regional Office per 10 CSR 20-7.015(9)(G).
7. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the Department's ePermitting system available online at [dnr.mo.gov/env/wpp/epermit/help.htm](https://dnr.mo.gov/env/wpp/epermit/help.htm). See [dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm](https://dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm), for more information.

8. A United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Department of the Army permit and a Section 401 Water Quality Certification issued by the Department may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied or notification is provided that no Section 404 permit is required by the USACE. You must contact your local USACE district since they determine what waters are jurisdictional and which permitting requirements may apply. You may call the Department's Water Protection Program, Operating Permits Section at 573-522-4502 for more information. See [dnr.mo.gov/env/wpp/401/](http://dnr.mo.gov/env/wpp/401/), for more information.
9. Upon completion of construction, the City of Centralia will:
  - A. Become the continuing authority for operation and maintenance of these facilities;
  - B. Submit an electronic copy of the as-builts if the project was not constructed in accordance with previously submitted plans and specifications; and
  - C. Include an updated facility description on their application when the facility applies for their next operating permit renewal.

#### **IV. REVIEW SUMMARY**

##### **1. CONSTRUCTION PURPOSE**

Resolves issues of insufficient storage capacity for wastewater, which contributed to a need for implementation of overland flow for excess wastewater. The process of overland flow does not adequately treat ammonia and *E. Coli* in the wastewater, so the addition of more irrigation area will allow for the removal of that section of the treatment system.

##### **2. FACILITY DESCRIPTION.**

The Centralia WWTF is located 0.25 miles east of the March Road and Fountain Street intersection, Centralia, Missouri, in Boone and Audrain Counties. The facility has a design average flow of 806,000 gpd and serves a hydraulic population equivalent of approximately 8,060 people.

##### **3. REVIEW OF MAJOR TREATMENT DESIGN CRITERIA**

The land application sites are spread across multiple plots of land owned by private citizens who have entered into a contract with the City of Centralia, spread between both Boone and Audrain Counties. The leased land application site is approximately 922 acres with row crops such as soybeans and corn. This site is unfenced. Maximum application rates are 0.2 inches/hour, 1 inch/day, 3 inches/week, and 24 inches/year.

#### **4. OPERATING PERMIT**

Operating permit MO-0028789 will require a modification to reflect the construction activities. The draft modified permit was successfully public noticed from August 5, 2020, to September 4, 2020, with no comments received. At the appropriate time, submit the Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) and request the operating permit modification be issued.

Joshua Brown  
Financial Assistance Center  
[joshua.brown@dnr.mo.gov](mailto:joshua.brown@dnr.mo.gov)