



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

www.dnr.mo.gov

June 21, 2016

The Honorable Howard Steele, Mayor
City of Wellsville
200 W. Houston
Wellsville, MO 63384

RE: C295807-01 City of Wellsville, MO – Wellsville Collection System and Wastewater Treatment Facility Improvements, Wellsville East Lagoon Wastewater Treatment Facility, MO-0050695, Construction Permit No. CP0001818

Dear Mayor Steele:

The Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by Shafer, Kline and Warren, Inc. for the city of Wellsville. Please find enclosed Construction Permit No. 0001818 and one set of approved specifications. One set of approved plans has been sent under separate cover by Mr. Conrad Blume, P.E. of my staff. You must maintain these with your official project file for a minimum of four years following completion of the project.

This permit will terminate 12 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the department may grant an extension only one time. 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.

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 appeal to have the matter heard by the Administrative Hearing Commission. To appeal, you must file a petition with the Administrative Hearing Commission 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 Administrative Hearing Commission.

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If you have any questions concerning this matter, please contact Mr. Conrad Blume, P.E. of the Water Protection Program, at 573-751-5937 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



Shawn Muenks P.E., SRF Engineering Unit Chief
Financial Assistance Center

SM:cbc

Enclosures

c: Mr. Philip Wilson, P.E., Shafer, Kline and Warren, Inc.
St. Louis Regional Office
Ms. Kristi Savage-Clarke, Water Protection Program, Compliance & Enforcement (email)
Mr. Conrad Blume, P.E., Water Protection Program, Financial Assistance Center
Ms. Courtney Zimmerman, 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:

City of Wellsville
200 W. Houston
Wellsville, MO 63384

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.

June 21, 2016
Effective Date

June 20, 2017
Expiration Date

Sara Parker Pauley, Director, Department of Natural Resources

Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

This portion of the project will consist of the rehabilitation of approximately 1,600 linear feet (lf) of sewer line along State Hwy AA, the replacement of the East Lift Station, the construction of the Southwest Lift Station which will consist of a submersible duplex pump lift station with two pumps, each pump capable of operating at 330 gallons per minute (gpm) at 97 feet of total dynamic head (TDH), the construction and installation of approximately 84 (lf) of eight-inch polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer, 287 lf of ten-inch PVC SDR-35 gravity sewer, three manholes, 7,421 lf of eight-inch PVC SDR-21 force main with cleanouts and air release valves, and all necessary appurtenances to complete the project.

WASTEWATER TREATMENT FACILITY:

The proposed wastewater treatment facility improvements will consist of the construction of a new Submerged Attached Growth Reactor (SAGR) system at the East Lagoon that will be capable of treating an average flow of 158,000 gallons per day (gpd) and a peak wet weather flow of 584,640 gpd, preparation of the location for the installation of a disinfection system, rehabilitation of the Southwest Lagoon primary cell to be used as a storm water storage basin for the new Southwest Lift Station, the construction of a concrete lined surge basin in the Southwest Lagoon primary cell, closure of the second and third cell of the Southwest Lagoon, and partially or completely removing the sludge from the East Lagoon and the primary cell of the Southwest Lagoon depending on the availability of funds.

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

PERMIT CONDITIONS:

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

1. All construction shall be in accordance with the plans and specifications submitted by Shafer, Kline, and Warren, Inc., on May 19, 2016, and signed and sealed by Mr. Philip Wilson, P.E. on December 17, 2015 and approved by the department on June 21, 2016.
2. Regulation 10 CSR 20-4.040(19)(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.

3. 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(8).
4. 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 20 of this rule.
5. This construction permit does not authorize discharge.
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 St. Louis Regional Office per 10 CSR 20-7.015(9)(E)2.
7. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."
 - A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least ten feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a ten foot separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - C. Manholes should be located at least ten feet horizontally from any existing or proposed water main.
 - D. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as

far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one (1) of the following methods must be specified:

- 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.
8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one 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 may only be obtained by means of the department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm.
- See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.
9. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at (573) 751-1300 for more information.
- See www.dnr.mo.gov/env/wpp/401/ for more information.
10. A full closure plan shall be submitted to the department's St. Louis Regional Office for review and approval of any permitted wastewater treatment system being replaced. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III, Section I, of the Missouri State Operating Permit No. MO-0041050 Wellsville Southwest Lagoon. Closure shall not commence until the submitted closure plan is approved by the department. Form J – Request for Termination of a State Operating Permit, shall be submitted to the department's St. Louis Regional Office for termination of any existing Missouri State Operating Permit, once closure is completed in accordance with the approved closure plan.

11. Upon completion of construction:

- A. The city of Wellsville will become the continuing authority for operation, maintenance, and modernization of these facilities;
- B. Submit the enclosed form Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(D); and
- C. Submit an electronic copy of the as built.