STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION

CONSTRUCTION PERMIT

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

Greenville WWTF  
0.1 miles SE of Poplar St. and Sycamore St. intersection,  
Greenville, MO 63944

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 (Department).

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.

April 1, 2022  
Effective Date  

March 31, 2024  
Expiration Date  

Chris Wieberg, Director, Water Protection Program
CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Greenville is proposing construction to rehab their existing collection system, add a new lift station, and construction at their treatment plant to meet final ammonia effluent limits. Construction at the treatment plant will include a new grinder pump station, automatic screening, new aeration in lagoon cells, new MBBR system, with UV disinfection system. Construction will convert the existing sand filters to lagoon cells #3a and #3b. An electromagnetic flowmeter will be installed. The design average flow will remain at 74,000 gpd.

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 consistent with plans and specifications signed and sealed by Robert Summers, PE with Horner & Shifrin and as described in this permit.

3. The Department must be contacted in writing prior to making any changes to the 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).
4. 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 Southeast Regional Office per 10 CSR 20-7.015(9)(G).

5. The wastewater treatment facility shall be located above the twenty-five (25)-year flood level.

6. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation per 10 CSR 20-8.140(2)(B). The minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300') per 10 CSR 20-8.140(2)(C)1.

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 https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem. See https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting 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 https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality for more information.

9. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.

- Vacuum testing, if specified for concrete sewer manholes, shall conform to the test procedures in ASTM C1244 – 11(2017) Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test Prior to Backfill, as approved and published April 1, 2017, or the manufacturer’s recommendation. 10 CSR 20-8.120(4)(F)1.
- Exfiltration testing, if specified for concrete sewer manholes, shall conform to the test procedures in ASTM C969 – 17 Standard Practice for Infiltration and Exfiltration Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines, as approved and published April 1, 2017. 10 CSR 20-8.120(4)(F)2.
• Flood protection shall apply to new construction and to existing facilities undergoing major modification. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred (100)-year flood elevation. 10 CSR 20-8.140(2)(B). 10 CSR 20-8.130 (2) (A)

• Facilities shall be readily accessible by authorized personnel from a public right–of–way at all times. 10 CSR 20-8.140 (2) (D). 10 CSR 20-8.130 (2) (B)

• Adequate provisions shall be made to effectively protect facility personnel and visitors from hazards. The following shall be provided to fulfill the particular needs of each wastewater treatment facility: 10 CSR 20-8.130(2)(C)

• The distance between wastewater pumping stations and all potable water sources shall be at least fifty feet (50') in accordance with 10 CSR 23-3.010(1)(B). 10 CSR 20-8.130 (2) (D)

• Multiple pumps shall be provided except for design average flows of less than fifteen hundred (1,500) gallons per day. 10 CSR 20-8.130 (3) (B) 1.

• Electrical equipment. Electrical equipment shall be provided with the following requirements:
  o 10 CSR 20-8.130 (3) (B) 2. A. Electrical equipment must comply with 10 CSR 20-8.140(7)(B);
  o Utilize corrosive resistant equipment located in the wet well; 10 CSR 20-8.130 (3) (B) 2. B.
  o Provide a watertight seal and separate strain relief for all flexible cable; 10 CSR 20-8.130(3) (B) 2. C.
  o Install a fused disconnect switch located above ground for the main power feed for all pumping stations. 10 CSR 20-8.130 (3) (B) 2. D.
  o When such equipment is exposed to weather, it shall comply with the requirements of weather proof equipment; enclosure NEMA 4; NEMA 4X where necessary; and NEMA Standard 250-2014, published December 15, 2014. 10 CSR 20-8.130 (3) (B) 2. E.
  o Install lightning and surge protection systems; 10 CSR 20-8.130 (3) (B) 2. F.
  o Install a one hundred ten volt (110 V) power receptacle inside the control panel located outdoors to facilitate maintenance; 10 CSR 20-8.130 (3) (B) 2. G.
  o Provide Ground Fault Circuit Interruption (GFCI) protection for all outdoor receptacles. 10 CSR 20-8.130 (3) (B) 2. H.

• Water level controls must be accessible without entering the wet well. 10 CSR 20-8.130 (3) (C)

• Valves shall not be located in the wet well unless integral to a pump or its housing. 10 CSR 20-8.130 (3) (D)

• Covered wet wells shall have provisions for air displacement to the atmosphere, such as an inverted and screened “j” tube or other means. 10 CSR 20-8.130 (3) (E)

• There shall be no physical connection between any potable water supply and a wastewater pumping station, which under any conditions, might cause contamination of the potable water supply. If a potable water supply is brought to the station, no piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.130 (3) (G)
• Flood protection shall apply to new construction and to existing facilities undergoing major modification. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation. 10 CSR 20-8.140 (2) (B)
• Unless another distance is determined by the Missouri Geological Survey or by the department’s Public Drinking Water Branch, the minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300'). 10 CSR 20-8.140 (2) (C) 1.
• Facilities shall be readily accessible by authorized personnel from a public right–of–way at all times. 10 CSR 20-8.140 (2) (D)
• The outfall shall be so constructed and protected against the effects of flood water, ice, or other hazards as to reasonably ensure its structural stability and freedom from stoppage. 10 CSR 20-8.140 (6) (A)
• All sampling points shall be designed so that a representative and discrete twenty-four hour automatic composite sample or grab sample of the effluent discharge can be obtained at a point after the final treatment process and before discharge to or mixing with the receiving waters. 10 CSR 20-8.140 (6) (B)
• All outfalls shall be posted with a permanent sign indicating the outfall number (i.e., Outfall #001).
• All wastewater treatment facilities shall be provided with an alternate source of electric power or pumping capability to allow continuity of operation during power failures. 10 CSR 20-8.140 (7) (A) 1.
• Disinfection and dechlorination, when used, shall be provided during all power outages. 10 CSR 20-8.140 (7) (A) 2.
• Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 National Electric Code (NEC) (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140 (7) (B)
• An audiovisual alarm or a more advanced alert system, with a self-contained power supply, capable of monitoring the condition of equipment whose failure could result in a violation of the operating permit, shall be provided for all wastewater treatment facilities. 10 CSR 20-8.140 (7) (C)
• No piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.140 (7) (D) 1.
• Where a potable water supply is to be used for any purpose in a wastewater treatment facility other than direct connections, a break tank, pressure pump, and pressure tank or a reduced pressure backflow preventer consistent with the department’s Public Drinking Water Branch shall be provided. 10 CSR 20-8.140 (7) (D) 3. A.
• For indirect connections, a sign shall be permanently posted at every hose bib, faucet, hydrant, or sill cock located on the water system beyond the break tank or backflow preventer to indicate that the water is not safe for drinking. 10 CSR 20-8.140 (7) (D) 3. B.
• Where a separate non-potable water supply is to be provided, a break tank will not be necessary, but all system outlets shall be posted with a permanent sign indicating the water is not safe for drinking. 10 CSR 20-8.140 (7) (D) 4.

• A means of flow measurement shall be provided at all wastewater treatment facilities. 10 CSR 20-8.140 (7) (E)

• Effluent twenty-four (24) hour composite automatic sampling equipment shall be provided at all mechanical wastewater treatment facilities and at other facilities where necessary under provisions of the operating permit. 10 CSR 20-8.140 (7) (F)

• Adequate provisions shall be made to effectively protect facility personnel and visitors from hazards. The following shall be provided to fulfill the particular needs of each wastewater treatment facility:
  o Fencing. Enclose the facility site with a fence designed to discourage the entrance of unauthorized persons and animals; 10 CSR 20-8.140 (8) (A)
  o Gratings over appropriate areas of treatment units where access for maintenance is necessary; 10 CSR 20-8.140 (8) (B)
  o First aid equipment; 10 CSR 20-8.140 (8) (C)
  o Posted “No Smoking” signs in hazardous areas; 10 CSR 20-8.140 (8) (D)
  o Appropriate personal protective equipment (PPE); 10 CSR 20-8.140 (8) (E)
  o Portable blower and hose sufficient to ventilate accessed confined spaces; 10 CSR 20-8.140 (8) (F)
  o 10 CSR 20-8.140 (8) (G) Portable lighting equipment complying with NEC requirements. See subsection (7)(B) of this rule;
  o 10 CSR 20-8.140 (8) (H) Gas detectors listed and labeled for use in NEC Class I, Division 1, Group D locations. See subsection (7)(B) of this rule;
  o Appropriately-placed warning signs for slippery areas, non-potable water fixtures (see subparagraph (7)(D)3.B. of this rule), low head clearance areas, open service manholes, hazardous chemical storage areas, flammable fuel storage areas, high noise areas, etc.; 10 CSR 20-8.140 (8) (I)

• The identification and hazard warning data included on chemical shipping containers, when received, shall appear on all containers (regardless of size or type) used to store, carry, or use a hazardous substance. 10 CSR 20-8.140 (9) (E)

• All wastewater treatment facilities must have a screening device, comminutor, or septic tank for the purpose of removing debris and nuisance materials from the influent wastewater. 10 CSR 20-8.150 (2)

• All screening devices and screening storage areas shall be protected from freezing. 10 CSR 20-8.150 (4) (A) 1.

• Provisions shall be made for isolating or removing screening devices from their location for servicing. 10 CSR 20-8.150 (4) (A) 2.

• Mechanically cleaned screen channels shall be protected by guard railings and deck gratings. 10 CSR 20-8.150 (4) (A) 3. A. (II)

• Mechanical screening equipment shall have adequate removal enclosures to protect facility personnel against accidental contact with moving parts and to prevent dripping in multi-level installations. 10 CSR 20-8.150 (4) (A) 3. B. (I)

• A positive means of locking out each mechanical screening device shall be provided. 10 CSR 20-8.150 (4) (A) 3. B. (II)
• An emergency stop button with an automatic reverse function shall be located in close proximity to the mechanical screening device. 10 CSR 20-8.150 (4) (A) 3. B. (III)

• Moving Bed Bioreactor (MBBR). A MBBR secondary treatment system shall provide upstream preliminary treatment units capable of—
  o Screening to reduce pass-through and suspended solids; 10 CSR 20-8.180 (8)(A)
  o Grit removal; 10 CSR 20-8.180 (8)(B) and
  o Oil and grease removal. 10 CSR 20-8.180 (8)(C)

• The UV dosage shall be based on the design peak hourly flow, maximum rate of pumpage, or peak batch flow. 10 CSR 20-8.190 (5) (A) 1.

• If no flow equalization is provided for a batch discharger, the UV dosage shall be based on the peak batch flow. 10 CSR 20-8.190 (5) (A) 2.

• The UV system shall deliver the target dosage based on equipment derating factors and, if needed, have the UV equipment manufacturer verify that the scale up or scale down factor utilized in the design is appropriate for the specific application under consideration. 10 CSR 20-8.190 (5) (A) 3.

• The UV system shall deliver a minimum UV dosage of thirty thousand microwatt seconds per centimeters squared (30,000 μW • s/cm²). 10 CSR 20-8.190 (5) (A) 4.

• Open channel UV systems. The combination of the total number of banks shall be capable of treating the design peak hourly flow, maximum rate of pumpage, or peak batch flow. 10 CSR 20-8.190 (5) (B) 1.

• The UV system must continuously monitor and display at the UV system control panel the following minimum conditions:
  o The relative intensity of each bank or closed vessel system; 10 CSR 20-8.190 (5) (C) 1. A.
  o The operational status and condition of each bank or closed vessel system; 10 CSR 20-8.190 (5) (C) 1. B.
  o The ON/OFF status of each lamp in the system; 10 CSR 20-8.190 (5) (C) 1. C. and
  o The total number of operating hours of each bank or each closed vessel system. 10 CSR 20-8.190 (5) (C) 1. D.

• The UV system shall include an alarm system. Alarm systems shall comply with 10 CSR 20-8.140(7)(C). 10 CSR 20-8.190 (5) (C) 2.

10. Upon completion of construction:

A. The City of Greenville will become the continuing authority for operation and maintenance of these facilities;

B. Submit an electronic copy of the as built if the project was not constructed in accordance with previously submitted plans and specifications; and

C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) with a request to issue the modified operating permit. The modification fee has been paid.
IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

Construction is to help the facility meet final ammonia effluent limits.

2. FACILITY DESCRIPTION

The Greenville WWTF is located approximately 0.1 miles southeast of Poplar Street and Sycamore St. intersection, Greenville, in Wayne County, Missouri. The facility has a design average flow of 74,000 gpd and serves a population equivalent of approximately 1,070 people. The existing treatment plant is a 2 cell lagoon system with open sand filters and chlorine disinfection. As part of the proposed construction the sand filters and the chlorine disinfection system will be removed and a MBBR system and UV disinfection system will be added.

3. COMPLIANCE PARAMETERS

The proposed project is required to meet final effluent limits for ammonia established in Operating Permit MO-0093432. The limits following the completion of construction will be applicable to the facility:

<table>
<thead>
<tr>
<th>EFFLUENT PARAMETER(S)</th>
<th>UNITS</th>
<th>FINAL EFFLUENT LIMITATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DAILY MAXIMUM</td>
</tr>
<tr>
<td>Biochemical Oxygen Demand$_s$</td>
<td>mg/L</td>
<td>45</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/L</td>
<td>45</td>
</tr>
<tr>
<td>E. coli (Note 1, Page 4)</td>
<td>/100mL</td>
<td>630</td>
</tr>
<tr>
<td>Ammonia as N (January)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (February)</td>
<td>mg/L</td>
<td>10.1</td>
</tr>
<tr>
<td>Ammonia as N (March)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (April)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (May)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (June)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (July)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (August)</td>
<td>mg/L</td>
<td>10.1</td>
</tr>
<tr>
<td>Ammonia as N (September)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (October)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (November)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
<tr>
<td>Ammonia as N (December)</td>
<td>mg/L</td>
<td>12.1</td>
</tr>
</tbody>
</table>
4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

Existing major components that will remain in use include the following:

- Existing Forcemain from Terminal Lift Station
- Lagoon cell #1 is partial mix with a surface area of approximately 0.56 acres and a depth of 10 ft with a volume of 1.1 MG to provide approximately 15.1 days of storage.
- Lagoon cell #2 is partial mix with a surface area of approximately 0.35 acres and a depth of 10 ft with a volume of 0.6 MG to provide approximately 8.7 days of storage.

Construction will cover the following items:

- Collection System
  - CIPP line approximately 1756 lf of 8 inch pipe
  - Replace a minimum of 100 lf of 8 inch pipe
  - Replace 2 inch sewer wyes
  - Rehab 28 manholes
- Lift Stations
  - Lift Station #1- replace the pumps with 2 new centrifugal chopper submersible pumps capable of operating at 320 gpm at 90 ft TDH.
  - Lift Station #2-replace the pumps with 2 non-clog submersible pumps capable of operating at 155 gpm at 70 ft TDH
  - Lift Station K1- replace the pumps with 2 non-clog submersible pumps capable of operating at 100 gpm at 120 ft TDH
  - Lift Station K2- replace the pumps with 2 non-clog submersible pumps capable of operating at 20 gpm at 35 ft TDH
  - Portable trash pump as an emergency standby capable of operating at 300 gpm at 150 ft TDH..
- Influent Pump Station on the Nursing Home Influent – Construction of a duplex grinder influent pump station with each 2 HP submersible pump capable of operating at 25 gpm at 35 feet of TDH.
- Install approximately 350 ft of 2 inch SDR-21 forcemain to the new flow meter.
- Flow Measurement – Installation of accurate flow measurement devices will give the treatment facility a means of improved data analysis.
  - Electromagnetic Meter – An influent electromagnetic 6-inch flow meter shall measure the raw influent. The flow meter will be installed 3 ft x 3 ft x 4 ft concrete valve.
• Screening – Installation of screening devices removes nuisance inorganic materials from raw wastewater. Influent automatic in-line mechanical screw screening capable of treating a peak flow of 520,000 gpd.
  o The tank will be 1.4 ft x 3.9 ft x 4.3 ft.
  o The screen will be installed at an installation angle of 35°.
  o The screenings capture ratio is 52%.
  o The perforated plate screen basket with a maximum opening of 6 mm.
  o The addition of a washer/compactor and screenings conveyor will mitigate the increased volume of screenings captured by washing, dewatering, and compacting the screenings prior to disposal.
  o From the screenings, wastewater will flow into the existing aerated lagoon cells.

• The existing open sand filters will be removed and converted to additional lagoon cells.
  o Lagoon cell #3a is partial mix with a lagoon side water depth of 5 ft has a surface area of approximately 0.1 acres with a depth of 5 ft with a volume of 0.1 MG to provide approximately 1.9 days of storage.
  o Lagoon cell #3b is facultative, with a has a surface area of approximately 0.1 acres and a depth of 3 ft with a volume of 0.1 MG to provide approximately 1.9 days of storage.
  o Cell No. 1 will have 3 aerators providing 93 scfm of air
  o Cell No. 2 will have 1 aerator providing 18 scfm of air
  o Cell No. 3A will have 1 aerator providing 21 scfm of air.
  o The blowers will be positive displacement 7.5 HP providing a minimum of 132 scfm at a discharge pressure of 6.11 PSI.

• Triplepoint Water Technologies, LLC NitrOx™ – The lagoon treated effluent will flow by gravity to the NitrOx™ system. The NitrOx™ system is capable of treating a design average flow of 74,000 gpd.
  o The system is composed of two tanks with each approximately 6.2 ft x 14.6 ft x 14.3 ft with a sidewater depth of 10 ft, providing a treatment volume of 6,765 gallons.
    • Total volume of the two tanks is 13,530 gallons.
  o The average flow hydraulic retention time is 4.39 hours and the peak flow of 117,500 gpd, the hydraulic retention time is 2.76 hours. A floating insulating cover shall be installed in each tank.
  o An immersion tank heater will be installed to maintain a minimum wastewater temperature of 5°C.
  o Each tank shall be filled approximately 50% with high surface area HDPE media.
  o Aeration by means of two tri-lobe positive displacement blowers each capable of supplying 133 scfm with 7.5 HP motors.
  o The effluent from the NitrOx™ will flow by gravity to Lagoon Cell No. 3b for polishing prior to disinfection and discharge.

• Disinfection – Disinfection is the process of removal, deactivation, or killing of pathogenic microorganisms.
Non-Contact Ultraviolet (UV) – A closed channel, gravity flow, low pressure high intensity UV non-contact disinfection system capable of treating a peak flow of 185,000 gpd while delivering a minimum UV intensity of 30 mJ/cm² with an expected ultraviolet transmissivity of 50% or greater.

The enclosed UV system consists of 5 lamps per lamp rack and 3 racks per reactor, for a total of 15 lamps per reactor.
The disinfected effluent will flow by gravity to Outfall No. 001.

5. OPERATING PERMIT

Operating permit MO-0093432 will require a modification to reflect the construction activities. The modified Greenville WWTF was successfully public noticed from January 21, 2022 to February 22, 2022 with no comments received. 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. The modification fee has been paid.

V. NOTICE OF RIGHT TO APPEAL

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. Any appeal should be directed to:

Administrative Hearing Commission
U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557
Jefferson City, MO 65102-1557
Phone: 573-751-2422
Fax: 573-751-5018
Website: https://ahc.mo.gov

Leasue Meyers, EI
Engineering Section
leasue.meyers@dnr.mo.gov

John Rustige, P.E.
Engineering Section
John.rustige@dnr.mo.gov
APPLICATION OVERVIEW

The Application for Construction Permit – Wastewater Treatment Facility form has been developed in a modular format and consists of Part A and B. All applicants must complete Part A. Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.

PART A – BASIC INFORMATION

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

1.1 Is this a Federal/State funded project? ☑ YES ☐ N/A Funding Agency: RD, CDBG Project #: ______

1.2 Has the Missouri Department of Natural Resources approved the proposed project’s antidegradation review? ☑ YES ☐ Date of Approval: ______ ☐ N/A

1.3 Has the department approved the proposed project’s facility plan*? ☑ YES Date of Approval: 05/2019 ☐ NO (If No, complete No. 1.4.)

1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan* for wastewater treatment facilities included with this application? ☑ YES ☐ NO ☐ Exempt because ______

1.5 Is a copy of the appropriate plans* and specifications* included with this application? ☑ YES Denote which form is submitted: ☑ Hard copy ☑ Electronic copy (See instructions.) ☐ NO

1.6 Is a summary of design* included with this application? ☑ YES ☐ NO

1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department? ☑ YES Date of submittal: ______

☐ Enclosed is the appropriate operating permit application and fee submittal. Denote which form: ☑ A ☑ B ☑ B2 ☐ N/A: However, in the event the department believes that my operating permit requires revision to permit limitation such as changing equivalent to secondary limits to secondary limits or adding total residual chlorine limits, please share a draft copy prior to public notice? ☑ YES ☐ NO

1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency? ☑ YES ☐ NO

1.9 Is the appropriate fee or JetPay confirmation included with this application? ☑ YES ☐ NO

See Section 7.0

* Must be affixed with a Missouri registered professional engineer’s seal, signature and date.

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

Greenville, MO Wastewater Treatment and Collection System Improvements

2.2 ESTIMATED PROJECT CONSTRUCTION COST

$ 1,568,625

2.3 PROJECT DESCRIPTION

Rehabilitation of the Greenville, MO wastewater treatment facility and collection system. See the Project Plans and Specifications for full details.

2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION

Sludge is stored in the lagoon

2.5 DESIGN INFORMATION

A. Current population: 511 ; Design population: 537

B. Actual Flow: .05BM gpd; Design Average Flow: .74MM gpd;

Actual Peak Daily Flow: ______ gpd; Design Maximum Daily Flow: .118M gpd; Design Wet Weather Event: .296M

2.6 ADDITIONAL INFORMATION

A. Is a topographic map attached? ☑ YES ☐ NO

B. Is a process flow diagram attached? ☑ YES ☐ NO
### 3.0 WASTEWATER TREATMENT FACILITY

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greenville Wastewater Treatment Facility</td>
<td>(573) 224-3911</td>
<td><a href="mailto:cogom@windstream.net">cogom@windstream.net</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDRESS (PHYSICAL)</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
<th>COUNTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 mi SW of Poplar St. and Sycamore St.</td>
<td>Greenville</td>
<td>MO</td>
<td>63944</td>
<td>Wayne</td>
</tr>
</tbody>
</table>

Wastewater Treatment Facility: MO-0093432 (Outfall 1 of 1)

3.1 Legal Description: NW ¼, SW ¼, SE ¼, Sec. 1, T 28N, R 5E

(Use additional pages if construction of more than one outfall is proposed.)

3.2 UTM Coordinates: Easting (X): 726464, Northing (Y): 4111545

For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

3.3 Name of receiving streams: Unnamed tributary to St. Francis River

### 4.0 PROJECT OWNER

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Greenville</td>
<td>(573) 224-3911</td>
<td><a href="mailto:cogom@windstream.net">cogom@windstream.net</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>108 Walnut St.</td>
<td>Greenville</td>
<td>MO</td>
<td>63944</td>
</tr>
</tbody>
</table>

### 5.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity or person(s) that will be operating the facility and/or ensuring compliance with the permit requirements.

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Greenville</td>
<td>(573) 224-3911</td>
<td><a href="mailto:cogom@windstream.net">cogom@windstream.net</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>108 Walnut St.</td>
<td>Greenville</td>
<td>MO</td>
<td>63944</td>
</tr>
</tbody>
</table>

5.1 A letter from the continuing authority, if different than the owner, is included with this application. □ YES □ NO

5.2 Complete the following if the continuing authority is a Missouri Public Service Commission regulated entity:

5.3 Complete the following if the continuing authority is a property owners association:

A. Is a copy of the certificate of convenience and necessity included with this application? □ YES □ NO

B. Is a copy of the as-filed restrictions and covenants included with this application? □ YES □ NO

C. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? □ YES □ NO

D. Is a copy of the Missouri Secretary of State’s nonprofit corporation certificate included with this application? □ YES □ NO

### 6.0 ENGINEER

<table>
<thead>
<tr>
<th>ENGINEER NAME / COMPANY NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bob Summers / Horner &amp; Shifrin, Inc.</td>
<td>(573) 718-4627</td>
<td><a href="mailto:rcsummers@hornershifrin.com">rcsummers@hornershifrin.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4061 State Hwy PP Ste 1</td>
<td>Poplar Bluff</td>
<td>MO</td>
<td>63901</td>
</tr>
</tbody>
</table>

### 7.0 APPLICATION FEE

<table>
<thead>
<tr>
<th>CHECK NUMBER</th>
<th>NETPAY CONFIRMATION NUMBER</th>
</tr>
</thead>
</table>

### 8.0 PROJECT OWNER: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**PROJECT OWNER SIGNATURE**

**DATE**

### END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.