STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

DCSD Riverdale Subdivision 1400 Riverdale Manor St. Paul, MO 63366

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.

August 15, 2022 Effective Date

August 14, 2024 **Expiration Date**

Mic Wilburg Mirector, Water Protegtion Program

Chris Wieberg, Director,

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

The DCSD Riverdale Subdivision WWTF is located at 1400 Riverdale Manor, St. Paul, in St. Charles County, Missouri. The existing facility has fine screens, influent pumps, aeration tanks, and membrane biological reactors that will remain in use, with the sludge pumped to DCSD #1 WWTF. Construction will include adding 2 new influent pumps, each capable of operating at 257 gpm. Two new aeration tanks, each with the capacity of 22,566 gallons. The existing membrane biological reactors (MBRs) will stay in use, with an increase of 12 modules to increase the total number of modules to 96 modules and a total surface area of 32,640 ft². New aeration blowers and permeate pumps will be installed. The new design average flow is 148,000 gpd with a peak flow of 300,000 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 Neath, PE with Donohue & Associates 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 St. Louis 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 <u>https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem</u>. See <u>https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting</u> 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 <u>https://dnr.mo.gov/water/businessindustry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.
- 9. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
 - Suitable and safe means of access to dry wells and to wet wells shall be provided to persons wearing self-contained breathing apparatus. 10 CSR 20-8.130 (3) (A) 2.
 - 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:

- 10 CSR 20-8.130 (3) (B) 2. A. Electrical equipment must comply with 10 CSR 20-8.140(7)(B);
- Utilize corrosive resistant equipment located in the wet well; 10 CSR 20-8.130 (3) (B) 2. B.
- Provide a watertight seal and separate strain relief for all flexible cable; 10 CSR 20-8.130(3) (B) 2. C.
- 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.
- 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.
- Install lightning and surge protection systems; 10 CSR 20-8.130 (3) (B) 2.
 F.
- 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.
- 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). 10 CSR 20-8.130 (2) (A)
- Submersible pump stations shall meet the applicable requirements under section (3) of this rule, except as modified in this section. 10 CSR 20-8.130 (5)
 - Pump Removal. Submersible pumps shall be readily removable and replaceable without personnel entering, dewatering, or disconnecting any piping in the wet well. 10 CSR 20-8.130 (5) (A)
 - 10 CSR 20-8.130 (5) (B) Valve Chamber and Valves. Valves required under subsection (3)(D) of this rule shall be located in a separate valve chamber.
 - A minimum access hatch dimensions of twenty-four inches by thirty-six inches (24" x 36") shall be provided. 10 CSR 20-8.130 (5) (B) 1.

- Alarm systems with an uninterrupted power source shall be provided for pumping stations. 10 CSR 20-8.130 (6)
- Facilities shall be readily accessible by authorized personnel from a public rightof-way at all times. 10 CSR 20-8.140 (2) (D)
- 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.
- 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:
 - Gratings over appropriate areas of treatment units where access for maintenance is necessary; 10 CSR 20-8.140 (8) (B)
 - First aid equipment; 10 CSR 20-8.140 (8) (C)
 - Posted "No Smoking" signs in hazardous areas; 10 CSR 20-8.140 (8) (D)
 - Appropriate personal protective equipment (PPE); 10 CSR 20-8.140 (8) (E)

- Portable blower and hose sufficient to ventilate accessed confined spaces; 10 CSR 20-8.140 (8) (F)
- 10 CSR 20-8.140 (8) (G) Portable lighting equipment complying with NEC requirements. See subsection (7)(B) of this rule;
- 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;
- 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)
- Ventilation shall include the following:
 - Isolate all pumping stations and wastewater treatment components installed in a building where other equipment or offices are located from the rest of the building by an air-tight partition, provide separate outside entrances, and provide separate and independent fresh air supply; 10 CSR 20-8.140 (8) (J) 1.
 - Force fresh air into enclosed screening device areas or open pits more than four feet (4') deep. 10 CSR 20-8.140 (8) (J) 2.
 - Dampers are not to be used on exhaust or fresh air ducts. Avoid the use of fine screens or other obstructions on exhaust or fresh air ducts to prevent clogging; 10 CSR 20-8.140 (8) (J) 3.
 - Where continuous ventilation is needed (e.g., housed facilities), provide at least twelve (12) complete air changes per hour. Where continuous ventilation would cause excessive heat loss, provide intermittent ventilation of at least thirty (30) complete air changes per hour when facility personnel enter the area. Base air change demands on one hundred percent (100%) fresh air; 10 CSR 20-8.140 (8) (J) 4.
 - Electrical controls. Mark and conveniently locate switches for operation of ventilation equipment outside of the wet well or building. Interconnect all intermittently operated ventilation equipment with the respective wet well, dry well, or building lighting system. The manual lighting/ventilation switch is expected to override the automatic controls. For a two (2) speed ventilation system with automatic switch over where gas detection equipment is installed, increase the ventilation rate automatically in response to the detection of hazardous concentrations of gases or vapors; 10 CSR 20-8.140 (8) (J) 5.
 - Fabricate the fan wheel from non-sparking material. Provide automatic heating and dehumidification equipment in all dry wells and buildings. 10 CSR 20-8.140 (8) (J) 6.
- Explosion-proof electrical equipment, non-sparking tools, gas detectors, and similar devices, in work areas where hazardous conditions may exist, such as digester vaults and other locations where potentially explosive atmospheres of flammable gas or vapor with air may accumulate. 10 CSR 20-8.140 (8) (K)

- Provisions for local lockout/tagout on stop motor controls and other devices; 10 CSR 20-8.140 (8) (L)
- Provisions for an arc flash hazard analysis and determination of the flash protection boundary distance and type of PPE to reduce exposure to major electrical hazards shall be in accordance with NFPA 70E *Standard for Electrical Safety in the Workplace* (2018 Edition), as approved and published August 21, 2017. 10 CSR 20-8.140 (8) (M)
- The materials utilized for storage, piping, valves, pumping, metering, and splash guards, etc., for chemical handling, shall be specially selected considering the physical and chemical characteristics of each hazardous or corrosive chemical. 10 CSR 20-8.140 (9) (A) 1.
- 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)
- Effective flow splitting devices and control appurtenances (*e.g.* gates and splitter boxes) shall be provided to permit proper proportioning of flow and solids loading to each settling unit, throughout the expected range of flows. 10 CSR 20-8.160 (2) (B)
- Overflow weirs shall be readily adjustable over the life of the structure to correct for differential settlement of the tank. 10 CSR 20-8.160 (3) (C) 1.
- Walls of settling tanks shall extend at least six inches (6") above the surrounding ground surface and shall provide not less than twelve inches (12") of freeboard. 10 CSR 20-8.160 (3) (E)
- Safety features shall appropriately include machinery covers, life lines, handrails on all stairways and walkways, and slip resistant surfaces. For additional safety follow the provisions listed in 10 CSR 20-8.140(8). 10 CSR 20-8.160 (5) (A)
- The design shall provide for convenient and safe access to routine maintenance items such as gear boxes, scum removal mechanism, baffles, weirs, inlet stilling baffle areas, and effluent channels. 10 CSR 20-8.160 (5) (B)
- For electrical equipment, fixtures, and controls in enclosed settling basins and scum tanks, where hazardous concentrations of flammable gases or vapors may accumulate, follow the provisions in 10 CSR 20-8.140(7)(B). The fixtures and controls shall be conveniently located and safely accessible for operation and maintenance. 10 CSR 20-8.160 (5) (C)
- For wastewater treatment plants with a flow equal to or greater than one hundred thousand gallons per day (100,000 gpd), the MBR process must be designed with a minimum of two (2) membrane trains capable of treating the daily average flow with one (1) membrane cassette out of service; 10 CSR 20-8.180 (7) (A) 1.
- Membrane Bioreactor design flux criteria must be satisfied with one (1) membrane module out-of-service (e.g., for external clean in place, recovery cleaning, repair). For purposes of these criteria, a membrane module is the smallest membrane unit capable of separate removal from the tank while maintaining operation of other membrane units in the same tank. 10 CSR 20-8.180 (7) (A) 2.

- Membranes placed in the aeration basin(s) rather than a separate membrane tank shall have—
 - Individual modules and individual diffusers that can be removed separately for maintenance and repair; 10 CSR 20-8.180 (7) (A) 3. A. and
 - Aeration basin(s) volume sized for complete nitrification; 10 CSR 20-8.180
 (7) (A) 3. B.
- Membrane Bioreactor preliminary treatment systems shall be consistent with the membrane manufacturer recommendations; 10 CSR 20-8.180 (7) (B) 1.
- Membrane Bioreactors shall provide a fine screen and high water alarm, designed to treat peak hourly flow. Coarse screens followed by fine screens may be used in larger facilities to minimize the complications of fine screening; and10 CSR 20-8.180 (7) (B) 4.
- Membrane Bioreactor preliminary treatment shall comply with 10 CSR 20-8.150(4)(B) for reliability. 10 CSR 20-8.180 (7) (B) 5.
- The Membrane Bioreactor's aeration blowers must provide adequate air for membrane scour and process demands. 10 CSR 20-8.180 (7) (C)
- Redundancy. The Membrane Bioreactor shall have at least one (1) of the following:
 - The ability to run in full programmable logic control (PLC) or standby power mode in case of an automatic control failure; 10 CSR 20-8.180 (7) (D) 1.
 - An operational battery backup PLC if manual control is not possible; or 10 CSR 20-8.180 (7) (D) 2.
 - Sufficient standby power generating capabilities to provide continuous flow through the membranes during a power outage (e.g., preliminary screening, process aeration, recycle/RAS/permeate pumps, air scour, vacuum pumps) or an adequate method to handle flow for an indefinite period (e.g., private control of influent combined with contingency methods). 10 CSR 20-8.180 (7) (D) 3.
- Operations and Maintenance. The MBR design shall—
 - Include provisions to monitor membrane integrity; 10 CSR 20-8.180
 (7) (E) 1.
 - Provide on-line continuous turbidity monitoring of filtrate or an equivalent for operational control and indirect membrane integrity monitoring for a treatment plant with design average flow greater than or equal to one hundred thousand gallons per day (100,000 gpd); 10 CSR 20-8.180 (7) (E) 2. and
 - Include provisions to remove membrane cassette for cleaning considering the membrane cassette wet weight plus additional weight of the solids accumulated on the membranes. 10 CSR 20-8.180 (7) (E) 3.
- 10. Upon completion of construction:
 - A. Duckett Creek Sewer District will 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. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) with a request for the Operating permit modification to be issued. The facility has paid for their modification.

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

The facility is expanding to meet future growth and development within the subdivision. The new design average flow is 148,000 gpd with a peak flow of 300,000 gpd.

2. FACILITY DESCRIPTION

The DCSD Riverdale Subdivision WWTF is located at 1400 Riverdale Manor, St. Paul, in St. Charles County, Missouri. The facility has an existing design average flow of 135,000 gpd. The existing facility has fine screens, influent pumps, aeration tanks, membrane biological reactors, with the sludge pumped to another Duckett Creek facility. Construction will add two new aeration tanks, new permeate pumps, and new influent pumps. The new design average flow is 148,000 gpd with a peak flow of 300,000 gpd.

3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is required to meet final effluent limits established in the Antidegradation review dated May 24, 2022, and will be applicable when construction is complete at the facility

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	
Flow	MGD	*		*	
Biochemical Oxygen Demand ₅	mg/L		20	10	
Total Suspended Solids	mg/L		20	10	
E. coli	#/100mL		1,030	206	
Ammonia as N (January)	mg/L	12.1		3.7	
Ammonia as N (February)	mg/L	12.1		3.7	
Ammonia as N (March)	mg/L	10.1		2.7	
Ammonia as N (April)	mg/L	8.4		2.1	

Ammonia as N (May)	mg/L	12.1	2.1
Ammonia as N (June)	mg/L	10.1	1.3
Ammonia as N (July)	mg/L	8.4	0.9
Ammonia as N (August)	mg/L	8.4	0.9
Ammonia as N (September)	mg/L	8.4	1.2
Ammonia as N (October)	mg/L	8.4	1.8
Ammonia as N (November)	mg/L	8.4	2.4
Ammonia as N (December)	mg/L	10.1	2.7
pH – Units	SU	6.0-9.0	6.0-9.0

4. ANTIDEGRADATION

The Department has reviewed the antidegradation report for this facility and issued the Water Quality and Antidegradation Review dated May 24, 2022, due to expansion to 148,000 gpd.

5. <u>REVIEW of MAJOR TREATMENT DESIGN CRITERIA</u>

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

- Influent Pump Station Duplex pump station with submiersible centrifugal pumps with capacity of 104 gpm at 47 ft total head
- Influent Fine Screen- Wedgewire drum screen with 0.04 inch openings with 300 gpm (432,000 gpd) capacity
- Two aeration tanks- each with a capacity of 22,566 gallons, operated in series flow separated by a weir with fine bubble diffusers. Tank 1 capable of anoxic or aerobic operation
- Two rotary lobe aeration blowers operated with VFDs with a firm capacity of 315 icfm at 5 psig (270 scfm at 5.0 psig)
- Two return activated sludge submersible centrifugal pumps operating at constant speed; each with a capacity of 500 gpm at 19 ft of head
- Two membrane biological reactors (MBRs), each with a capacity of 6,938 gallons operated in parallel with coarse bubble diffusers. 1 membrane cassette per tank. 36 modules with 12,200 sq ft of membrane area per cassette, for a total of 72 moduels and 24,400 sq ft of membrane area between the two tanks.
 - Original design flux rate of 12.3 gallons/ft³/day, equivalent to 150,000 gpd per cassette.
 - o 1 membrane aeration blower
- Existing 250 KW generator, capable of handling the new blowers and pumps.
- Solids are pumped out 2 to 3 times a week and taken to DCSD #1 WWTF.

Construction will cover the following items:

- Two replacement raw wastewater pumps, each capable of operating at 257 gpm at 60 ft total head, with new VFDs
- Two new aeration tanks operating in series-Each tank is approximately 26.92 ft by 11.92 ft by x 9.25 ft sidewater depth with a capacity of 22,566 gallons with a total of 90,264 gallon capacity between the 4 aeration basins.
 - Design MLSS is 8,000 mg/L
 - Aeration by 2 new aeration rotary lobe type blowers that are VFD operated to match the existing aeration blowers
 - Capable of operating at 315 icfm at 5.0 psig (270 scfm at 5.0 psig)
 - Aeration will be by fine bubble diffusers
- Membrane Bioreactor (MBR) The existing 2 MBR tanks currently have 1 cassette apiece with each cassette having 36 modules installed, with the ability to add additional modules. Each cassette has 25 percent spare space for additional modules, the addition of 12 modules will increase peak treatment capacity to 400,000 gpd, with a total of 48 modules per cassette and 96 modules total
 - \circ Design MLSS in the membrane tank is 10,000 mg/L
 - Design net flux of 12.3 gallons/ft²/day
 - \circ Total membrane area is 32,640 ft².
 - Aeration will be coarse bubble diffuers.
 - Disinfection is not proposed for this system because it utilizes ultrafiltration.
- Two new replacement permeate pumps installed on the same skid, increasing capacity to a net 300,000 gpd VFD operated.
- Two new MBR staging and cleaning tanks to fit membrane cassettes.

6. **OPERATING PERMIT**

Operating permit MO-0132152 will require a modification to reflect the construction activities. The modified permit, was successfully public noticed from July 1, 2022 to August 1, 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.

With your CP application, an operating permit modification was submitted for public notice to reflect the change in your operating permit. Your operating permit application for a renewal will be due before your CP is expired. The modification action does not fulfill the renewal application obligation. A renewal application must be filed before April 3, 2023.

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

Chia-Wei Young, P.E. Engineering Section <u>chia-wei.young@dnr.mo.gov</u>



FOR DEPARTMENT USE ONLY APP NO. CP NO.

FEE RECEIVED

CHECK NO.

DATE RECEIVED

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: 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*?					
 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?					
 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? 					
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 2.2 ESTIMATED PROJECT CONSTRUCTION COST \$					
2.3 PROJECT DESCRIPTION					
2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION					
2.5 DESIGN INFORMATION					
A. Current population:; Design population:					
B. Actual Flow: gpd; Design Average Flow: gpd; Actual Peak Daily Flow: gpd; Design Maximum Daily Flow: gpd; Design Wet Weather Event:					
2.6 ADDITIONAL INFORMATION					
A. Is a topographic map attached?					
B. Is a process flow diagram attached? UYES INO					
MO 780-2189 (02-19) Page 1 of 3					

3.0 WASTEWATER TREATMENT FACILIT	Y						
NAME		TELEPHONE NUMBER WI	TH AREA CODE	E-MAIL ADDRESS			
ADDRESS (PHYSICAL)	CITY		STATE	ZIP CODE	COUNTY		
Wastewater Treatment Facility: Mo-	(Outfall	Of)					
3.1 Legal Description:14,14	, <u> </u>	4, Sec, T	, R	_			
(Use additional pages if construction of more	than one ou	tfall is proposed.)					
3.2 UTM Coordinates Easting (X): For Universal Transverse Mercator (UTM), Zo	Northing ne 15 North	g (Y): referenced to North A	merican Datum 19	83 (NAD83)			
3.3 Name of receiving streams:							
4.0 PROJECT OWNER							
NAME		TELEPHONE NUMBER WI	TH AREA CODE	E-MAIL ADDRESS			
ADDRESS	CITY		STATE	ZIP CODE			
5.0 CONTINUING AUTHORITY: A continui	ng authori	y is a company, bus	iness, entity or p	erson(s) that will be	operating the facility		
and/or ensuring compliance with the permit r	equiremer						
		TELEPHONE NUMBER WI	IN AREA CODE	E-MAIL ADDRESS			
ADDRESS	CITY		STATE	ZIP CODE			
5.1 A letter from the continuing authority, if c	lifferent that	an the owner, is inclu	Ided with this ap	plication.	□ NO □ N/A		
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHO	RITY IS A MIS	SOURI PUBLIC SERVICE CO	MMISSION REGULATE				
A. Is a copy of the certificate of convenience			lis application?				
A. Is a copy of the as-filed restrictions and co	ovenants i	ncluded with this app	blication?	ES 🗌 NO			
B. Is a copy of the as-filed warranty deed, qu	uitclaim de	ed or other legal inst	trument which tra	ansfers ownership o	f the land for the		
 wastewater treatment facility to the association included with this application? YES NO C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers 							
included with this application? YES	NO 🗌 te's nonpr	ofit corporation certif	icate included w	ith this application?			
6.0 ENGINEER							
ENGINEER NAME / COMPANY NAME		TELEPHONE NUMBER WI	TH AREA CODE	E-MAIL ADDRESS			
ADDRESS	CITY		STATE	ZIP CODE			
7.0 APPLICATION FEE	r						
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 knowledge.							
PROJECT OWNER SIGNATURE							
PRINTED NAME				DATE			
TITLE OR CORPORATE POSITION		TELEPHONE NUMBER WI	TH AREA CODE	E-MAIL ADDRESS			
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176							
		END OF PART A					
MO 780-2189 (02-19) Page 2 of 3							