STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The I	Missouri	Departi	ment of	Natural	Resources	hereb	y issues a	permit to:

City of Moberly 101 West Reed Moberly, MO 65270

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.

November 19, 2024 Effective Date

January 15, 2027

Expiration Date

John Hoke, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

This project is for improvements at the Seven Bridges Road Combined Sewer Overflow (CSO) basin. The CSO basin is one of the four existing CSO basins listed in the Missouri State Operating Permit (MSOP) for Moberly Wastewater Treatment Facility (WWTF), MO-0117960. The basin stores excess stormwater and combined sewer overflow from the collection system and discharges when its capacity is exceeded. The purpose of this project is to reduce average annual CSO discharges and provide the ability to dewater the basin more rapidly between precipitation events.

The proposed improvements include raising the Seven Bridges Road CSO basin berm, modifying the existing outlet structure, removing sediment and sludge in the basin, installing a pump station to transfer the water in the basin back to the collection system for treatment, and adding a remote monitoring system.

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.

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- 2. All construction shall be consistent with plans and specifications signed and sealed by Craig Bunger, P.E., with BARR ENGINEERING CO. 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 Northeast Regional Office per 10 CSR 20-7.015(9)(G).
- 5. 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 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 <a href="https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting-permitting-epermitting-permitting-epe
- 6. 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.
- 7. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
- 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 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)
- The distance between wastewater pumping stations and all potable water sources shall be at least 50 feet 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 1,500 gpd. 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);
 - 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.
 - 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 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)
- 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)
 - o 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 24 inches by 36 inches 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)

- Where independent substations are used for emergency power, each separate substation and its associated distribution lines shall be capable of starting and operating the pump station at its rated capacity. 10 CSR 20-8.130(7)(B)
- Force main system shall be designed to withstand all pressures (including water hammer and associated cyclic reversal of stresses), and maintain a velocity of at least two feet per second. 10 CSR 20-8.130(8)(A)
- 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)
- A means of flow measurement shall be provided at all wastewater treatment facilities. 10 CSR 20-8.140(7)(E)
- 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:
 - 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)
 - 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)
 - 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 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 12 complete air changes per hour. Where continuous ventilation would cause excessive heat loss, provide intermittent ventilation of at least 30 complete air changes per hour when facility personnel enter the area. Base air change demands on 100 percent 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-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)
- Lagoon berms shall be constructed of relatively impervious material and compacted to at least 95 percent maximum dry density test method to form a stable structure. 10 CSR 20-8.200(4)(A)1.
- The minimum berm width shall be eight feet to permit access of maintenance vehicles. 10 CSR 20-8.200(4)(A)2.
- Minimum freeboard shall be two feet. 10 CSR 20-8.200(4)(A)3.
- An emergency spillway shall be provided that
 - o Prevents the overtopping and cutting of berms; 10 CSR 20-8.200(4)(A)4.A.
 - o Is compacted and vegetated or otherwise constructed to prevent erosion; 10 CSR 20-8.200(4)(A)4.B. and
 - Has the ability for a representative sample to be collected, if discharging. 10 CSR 20-8.200(4)(A)4.C.

- The lagoon shall be sealed to ensure that seepage loss is as low as possible and has a design permeability not exceeding 1.0×10^{-7} cm/sec. 10 CSR 20-8.200(4)(C)1.
- Seep collars shall be provided on drainpipes where they pass through the lagoon seal. 10 CSR 20-8.200(4)(C)4.
- 8. Upon completion of construction:
 - A. The City of Moberly 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 Statement of Work Completed form to the department in accordance with 10 CSR 20-6.010(5)(N) (https://dnr.mo.gov/document-search/wastewater-construction-statement-work-completed-mo-780-2155).

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

The purposes of the improvements at the Seven Bridges Road CSO basin are to reduce the basin's average annual CSO discharges and provide the ability to dewater the basin more rapidly between precipitation events.

2. FACILITY DESCRIPTION

The Seven Bridges CSO basin is one of the four existing CSO basins listed in the MSOP for Moberly WWTF, MO-0117960. The basin stores excess stormwater and combined sewer overflow from the collection system and discharges when its capacity is exceeded.

The proposed improvements include raising the Seven Bridges Road CSO basin berm, modifying the existing outlet structure, removing sediment and sludge in the basin, installing a pump station to transfer the water in the basin back to the collection system for treatment, adding remotely monitoring system, and including all necessary appurtenances to make a complete and usable WWTF.

The Moberly WWTF is located at 1429 County Road 2350, Moberly, in Randolph County, Missouri. The facility has a design average flow of 3.5 million gallons per day and serves a design population of approximately 19,000 people.

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3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is required to meet final effluent limits established in MSOP, MO-0117960.

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

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

• Seven Bridges Road CSO Basin – Influent enters the basin via a 24-inch reinforced concrete pipe (RCP) pipe. The basin has surface water area of approximately 2.5 acres with a storage capacity of approximately 2,229,800 gallons between the existing top of sludge elevation and the controlling outlet invert elevation of 763.5 feet. The existing berm top elevation is approximately 766 feet, and the basin bottom is approximately 758 feet. After the sludge removal, storage capacity of the basin will be increased to approximately 3,650,700 gallons between the basin bottom and the controlling outlet invert elevation.

Construction will cover the following items:

- Seven Bridges Road CSO Basin Berm Improvements Raising the berm to 769 feet elevation to exceed the FEMA base 100-year flood level at 765.4 feet elevation at the south end of the basin. The berm will have 3:1 slope, the depth from the top of the berm to the lagoon floor will be approximately 11 feet, and an emergency spillway is installed at 768 feet elevation. The berm width will be 8 feet.
- Existing Outlet Structure Modification Replace the existing 18-inch RCP outlet pipe with 24-inch RCP to match the diameter of the influent pipe. Outlet invert elevation will remain the same. An in-kind outlet flow meter will replace the existing ultrasonic flow meter at the outlet structure.
- Basin Dewatering System Installation of a 36-inch diameter RCP intake structure and approximately 200 lineal feet of 6-inch SDR 11 HDPE gravity line to route the water from the basin to the new CSO basin pumping system.
- CSO Basin Pumping System The new pumping system is to transfer the water from basin to the existing Seven Bridges Road Pump Station. The Seven Bridges Pump Station then delivers the received water via the existing collection system to Moberly WWTF for treatment. The new pumping system includes a duplex pump station with each pump capable of pumping 415 gallons per minute 25 feet total dynamic head (TDH); approximately 800 lineal feet of 6-inch SDR11 HDPE force main that connects the proposed CSO pumping station to the existing Seven Bridges Road Pump Station force main, and associated controls with SCADA integration to the Moberly WWTF system.

• Sludge Removal – Removing all existing sludge from the Seven Bridges Road CSO Basin and land applying the sludge in accordance with requirements set forth in the Moberly WWTF, MSOP, MO-0117960.

5. **OPERATING PERMIT**

These construction activities do not change the effluent limits or conditions of the current operating permit. The department will conduct an internal modification to reflect the current facility description upon receipt of the Statement of Work Completed form.

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

Sieu T. Dang, P.E. Engineering Section sieu.dang@dnr.mo.gov



Actual Peak Daily Flow: NA gpd;

A. Is a topographic map attached? YES NO

2.6 ADDITIONAL INFORMATION

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.) ☑ YES □ N/A Funding Agency: MDNR ARPA Project #: DNR-SW-DF67F243F43C 1.1 Is this a Federal/State funded 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: ☐ 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? No Facility Plan exists for this CSO Basin - Updated Preliminary Engineering Report (Rev ☐ YES ✓ Exempt because 08/2024) included based on discussion with WPP staff on July 12, 2024 in lieu of Facility Plan 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 1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency? **☑** NO 1.9 Is the appropriate fee or JetPay confirmation included with this application? See Section 7.0 * Must be affixed with a Missouri registered professional engineer's seal, signature and date. 2.0 PROJECT INFORMATION 2.2 ESTIMATED PROJECT CONSTRUCTION COST 2.1 NAME OF PROJECT 7 Bridges Road CSO Basin Pumping System Project \$ 802,000 2.3 PROJECT DESCRIPTION Improvements to the 7 Bridges Road CSO Basin to protect it from the 100-year flood, improve dewatering of the basin during dry conditions, and reduce the average annual frequency of discharge from the basin. 2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION Sludge will be removed from the basin as part of the project to increase existing basin storage. Sludge will be disposed of on City-owned property in accordance with State regulations. Sludge will be knifed into the ground during disposal. 2.5 DESIGN INFORMATION A. Current population: NA; Design population: NA B. Actual Flow: NA gpd; Design Average Flow: NA gpd; Design Maximum Daily Flow: NA gpd; Design Wet Weather Event: NA

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3.0 WASTEWATER TREATMENT FACILIT	Υ						
NAME	TELEPHONE NUMBER WITH AREA CODE		AREA CODE	E-MAIL ADDRESS			
Seven Bridges Road CSO Basin		(660) 269-9437		elute@cityofmoberly.com			
ADDRESS (PHYSICAL)			STATE	ZIP CODE	COUNTY		
Parcel 10-1.0-11.0-0.0-000-134.000 Moberl			МО	65270	Randolph		
Wastewater Treatment Facility: Mo- 0117960 (Outfall 004 Of 005)							
3.1 Legal Description:1/4,1/4,1/4, Sec. 11, T 53N, R 14W							
3.2 UTM Coordinates Easting (X): 546587 Northing (Y): 4361952 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)							
3.3 Name of receiving streams: Sweet S	Spring Cre	ek					
4.0 PROJECT OWNER							
NAME TELEPHONE NUMBER WITH AREA CODE E-MAIL ADDRESS							
City of Moberly		(660) 269-8705		shawnm@cityofn	noberly.com		
ADDRESS 101 West Reed	CITY Moberly	STATE MO		ZIP CODE 65270			
5.0 CONTINUING AUTHORITY: A continuing	-	v is a company busine		10.00-0.00	e operating the facility		
and/or ensuring compliance with the permit re	equiremen	ts.		berson(s) that will be	s operating the racility		
NAME City of Moberly		TELEPHONE NUMBER WITH A (660) 269-8705	REA CODE	E-MAIL ADDRESS shawnm@cityofmoberly.com			
ADDRESS CIT 101 West Reed Mo		9	MO	ZIP CODE 65270			
5.1 A letter from the continuing authority, if di	ifferent tha	n the owner, is include	l with this ar	pplication. YES	S NO NA		
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHOR	RITY IS A MISS	OURI PUBLIC SERVICE COMMIS	SION REGULATE	ED ENTITY.	, LINO BINA		
A. Is a copy of the certificate of convenience	and neces	sity included with this a	pplication?	☐YES ☐ NO			
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHOR	RITY IS A PRO	PERTY OWNERS ASSOCIATION.					
A. Is a copy of the as-filed restrictions and co			ition?	YES NO			
B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the							
C. Is a copy of the as-filed legal instrument (tincluded with this application?	ypically the				ts for all sewers		
D. Is a copy of the Missouri Secretary of State	☐ NO e's nonpro	fit corporation certificat	e included w	ith this application?	☐ YES ☐ NO		
6.0 ENGINEER				g topical discussion			
ENGINEER NAME / COMPANY NAME		TELEPHONE NUMBER WITH AF	REA CODE	E-MAIL ADDRESS			
Craig Bunger / Barr Engineering Co.		(573) 638-5017		cbunger@barr.com			
ADDRESS	CITY		STATE	ZIP CODE			
	Jefferson	City		65109			
7.0 APPLICATION FEE							
CHECK NUMBER		JETPAY CONFIRMATION NUMB					
8.0 PROJECT OWNER: I certify under pena supervision in accordance with a system design submitted. Based on my inquiry of the person gathering the information, the information submavare that there are significant penalties for supervisions.	ned to ass or persons nitted is, to	sure that qualified person s who manage the system to the best of my knowle	onnel proper em, or those edge and beli	ly gather and evalua persons directly res ief, true, accurate, a	ate the information sponsible for and complete. Lam		
knowing violations.	abilittiilig i	aise imormation, includ	ing the possi	ibility of line and imp	onsonment for		
PROJECT OWNER SIGNATURE Shown Wilde	udoy				1		
PRINTED NAME Shawn Middendorf DATE 9/13/24					74		
TITLE OR CORPORATE POSITION TELEPHONE NUMBER WITH AREA CODE E-MAIL ADDRESS							
Director of Public Utilities (660) 269-7659 shawnm@cityofmoberly.com					oberly.com		
WATER PRO P.O. BOX 17	OTECTION 6	ENT OF NATURAL RE I PROGRAM D 65102-0176	SOURCES				
	Displaying	END OF PART A.			AND THE PROPERTY OF THE PARTY		
REFER TO THE APPLICATION OVI	ERVIEW T		HER PART	B NEEDS TO BE C	OMPLETE.		

PART B – LAND APPLICATION ONLY (Submit only if the proposed construction project includes land application of wastewater.)					
8.0 FACILITY INFORMATION					
8.1 Type of wastewater to be irrigated: Domestic State/National Park Seasonal business Municipal Municipal with a pretreatment program or significant industrial users Other (explain)					
8.2 Months when the business or enterprise will operate or generate wastewater: 12 months per year Part of the year (list months):					
8.3 This system is designed for: No-discharge. Partial irrigation when feasible and discharge rest of time. Irrigation during recreational season, April – October, and discharge during November – March. Other (explain)					
9.0 STORAGE BASINS					
9.1 Number of storage basins: (Use additional pages if greater than three basins.)					
9.2 Type of basins: Steel Concrete Fiberglass Earthen Earthen with membrane liner					
9.3 Storage basin dimensions at inside top of berm (feet). Report freeboard as feet from top of berm to emergency spillway or overflow pipe. Basin #1: Length Width Depth Freeboard Depth Safety % Slope Basin #2: Length Width Depth Freeboard Depth Safety % Slope Basin #3: Length Width Depth Freeboard Depth Safety % Slope					
9.4 Storage Basin operating levels (report as feet below emergency overflow level). Basin #1: Maximum operating water level ft Minimum operating water level ft Basin #2: Maximum operating water level ft Minimum operating water level ft Basin #3: Maximum operating water level ft Minimum operating water level ft					
9.5 Design depth of sludge in storage basins. Basin #1: ft Basin #2: ft Basin #3: ft					
9.6 Existing sludge depth, if the basins are currently in operation. Basin #1: ft Basin #2: ft Basin #3: ft					
9.7 Total design sludge storage: dry tons and cubic feet					
10.0 LAND APPLICATION SYSTEM					
10.1 Number of irrigation sites Total Acres Maximum % field slopes Location: ¼, ¼, %ec T R County Acres Location: ¼, ¼, ¼, Sec T R County Acres (Use additional pages if greater than three irrigation sites.)					
10.2 Type of vegetation: ☐ Grass hay ☐ Pasture ☐ Timber ☐ Row crops ☐ Other (describe)					
10.3 Wastewater flow (dry weather) gallons per day: Average annual Seasonal Off-season					
10.4 Land application rate (design flow including 1-in-10 year storm water flows): Design: inches/year inches/hour inches/day inches/week Actual: inches/year inches/hour inches/day inches/week					
10.5 Total irrigation per year (gallons): Design: gal Actual: gal					
10.6 Actual months used for irrigation (check all that apply): ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☐ May ☐ Jun ☐ Jul ☐ Aug ☐ Sep ☐ Oct ☐ Nov ☐ Dec					
10.7 Land application rate is based on: ☐ Hydraulic Loading ☐ Other (describe) ☐ Nutrient Management Plan (N&P) If N&P is selected is the plan included? ☐ YES ☐ NO					

INSTRUCTIONS FOR COMPLETING APPLICATION FOR CONSTRUCTION PERMIT – WASTEWATER TREATMENT FACILITIES

All blanks must be filled in when the application is submitted to the Missouri Department of Natural Resources. This includes the **required signature**.

Note: Use the form Application for Construction Permit – Sewer Extension, MO 780-1632, if only collection system component(s) are to be constructed.

A land disturbance permit is required if construction will result in the disturbance of one or more acres of land. A land disturbance permit is available through the department's ePermitting system at dnr.mo.gov/env/wpp/epermit/help.htm. A permit fee in accordance with 10 CSR 20-6.011 is required.

After receiving a complete application, the Department enters the application information into the Missouri Clean Water Information System. You may search for the status of a construction permit online at dnr.mo.gov/mocwis-public/applicationInprocessSearch.do.

Part A – Basic Application Information

- 1.0 If the answer to any of the questions in this section is no, this application may be considered incomplete and returned to the applicant.
- 1.1 Check the appropriate box. If the project is funded with federal or state monies, supply the funding agency name and project number.
- 1.2 Check the appropriate box. Provide the date of department approval for the antidegradation report. Include a copy of the approved *Water Quality and Antidegradation Review* with this application. Not every construction project may require an antidegradation review. For more information, guidance documents and forms concerning antidegradation visit dnr.mo.gov/env/wpp/permits/antideg-implementation.htm.
- 1.3 Check the appropriate box and provide the date of department approval. Per 10 CSR 20-8.110(2), a facility plan must be submitted to the department prior to the submittal of a construction permit application. The department has developed a fact sheet to aid in the development of an approvable facility plan, Facility Plan Guidance for Wastewater Treatment Facilities, Fact Sheet--PUB2416.
- 1.4 Complete only if No. 1.3 is answered No. Check the appropriate box. Include the exemption reason from 10 CSR 20-6.010(4)(B).
- 1.5 Check the appropriate box. Provide a copy of the appropriate plans and specifications for department review when applying for a construction permit per 10 CSR 20-8.110 and 10 CSR 20-6.010. A Missouri registered professional engineering seal, signature and date is required on each sheet of the plans and the cover of the technical specifications. An electronic copy of the construction permit application and the information listed below in Portable Document Format (PDF) searchable format or department approved equivalent per 10 CSR 20-6.010(5)(G), along with one (1) paper copy for projects not seeking department funding or two (2) paper copies for projects seeking department funding under 10 CSR 20-4.
- 1.6 Check the appropriate box. A summary of design shall accompany the plans and specifications when applying for a construction permit per 10 CSR 20-6.010(5)(G) and 10 CSR 20-8.110(8). The department has developed a fact sheet to aid in the development of an acceptable summary of design. This document is available online at dnr.mo.gov/pubs/pub2417.htm.
- 1.7 Check the appropriate box if an operating permit modification is needed. Include the applicable operating permit application. New outfalls, discharges, projects converting to land application, or a lagoon upgrade require an operating permit modification application. Contact the Department for clarification. Projects that may not need an operating permit modification check the N/A box and indicate whether you want to review the draft prior to public notice should the Department determine a modification is required. The Department can modify your operating permit without an application for projects that are adding chlorine disinfection, constructing to meet current operating permit limits, or constructing to meet limits in a schedule of compliance.
 - Form A is available online at dnr.mo.gov/forms/780-1479-f.pdf.
 - Form B is available online at dnr.mo.gov/forms/780-1512-f.pdf.
 - Form B2 is available online at dnr.mo.gov/forms/780-1805-f.pdf.
- 1.8 Check the appropriate box. More information about the Compliance and Enforcement Water Protection Program is available online at dnr.mo.gov/env/wpp/enf/index.html.

- 1.9 Check the appropriate box. Include payment or payment confirmation for the fee with your application. See 10 CSR 20-6.011(2) and Wastewater Treatment Facility Permit Fees -- PUB2564.
 - **Note:** The department returns incomplete construction permit applications and related engineering documents and the application forfeits the fees. See 10 CSR 20-6.011(5)(A). The applicant forfeits the fees when the applicant withdraws construction applications. See 10 CSR 20-6.011(5)(B).
- 2.1 Provide the name of the proposed construction project.
- 2.2 Provide the estimated project construction cost. The estimated and final project construction cost will be useful to the department in conducting affordability analyses.
- 2.3 Briefly describe the construction project by providing the number and capacity of each new unit.
- 2.4 Briefly describe the method of sludge handling, use and disposal at the treatment facility.
- 2.5 Provide the project design information and when required in the units specified.
 - A. Provide the current population and the design population to be served by the wastewater treatment facility.
 - B. Provide the estimated design flow information in accordance with 10 CSR 20-8.110(3).
- 2.6 Provide the additional project information in accordance with 10 CSR 20-8.110(5).
 - A. Attach a topographic map of the area extending at least one mile beyond the facility property boundaries. This map must show the outline of the facility and the following information. A topographic map is available online at dnr.mo.gov/internetmapviewer or from the Department of Natural Resources' Missouri Geological Survey in Rolla, Mo., at 573-368-2125. (Submittals of more than one map may be necessary to show the entire area.)
 - 1. The area surrounding the wastewater treatment facility, including all unit processes.
 - 2. The major pipes or other structures through which wastewater enters the treatment facility and the pipes or other structures through which treated wastewater is discharged from the treatment facility. Include outfalls from bypass piping, if applicable.
 - 3. The actual point of discharge.
 - 4. Wells, springs, other surface water bodies and drinking water wells that are: 1) within ¼ mile of the property boundaries of the treatment facility and 2) listed in public record or otherwise known to the applicant.
 - 5. Any areas where biosolids produced by the treatment facility are treated, stored, or disposed.
 - 6. If the treatment facility receives waste classified as hazardous under the Resource Conservation and Recovery Act, or RCRA, by truck, rail, or special pipe, show on the map where hazardous waste enters the treatment works and where it is treated, stored or disposed.
 - 7. Outline any wastewater land application sites.
 - B. Provide a process flow diagram with the influent and effluent design average flow and peak flow capabilities. Also, depict all of the treatment facility components and the corresponding hydraulic capacities of each component. In addition, include all recycle flows in the diagram. If land application is used, depict all irrigation equipment and application sites.
- 3.0 Complete the Wastewater Treatment Facility information. Include the Missouri State Operation Permit number, outfall number, physical location, and other appropriate contact information.
- 3.1 Provide the project legal description. The department's mapping system is available online at dnr.mo.gov/internetmapviewer.
- 3.2 A Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used and the displayed coordinates submitted. If access to a GPS receiver is not available, use a mapping system to approximate the coordinates.
- 3.3 Provide the name of the receiving stream(s) to which the discharge is directed and any subsequent tributary until a continuous flowing stream is reached.
- 4.0 Complete Project Owner information. Include the legal name, address, phone number with area code and email address.
- 5.0 Complete Continuing Authority contact information. If same as the Project Owner, write "Same as above". 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. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0, unless the continuing

- authority is an individual(s), government, or otherwise not required to register with the SoS. See 10 CSR 20-6.010(2) for the regulatory requirement regarding continuing authority.
- 5.1 Check the appropriate box. Include a letter signed by the continuing authority (if not same as the project owner) stating they will "accept, operate and maintain" the wastewater treatment facility after successful construction.

 If the continuing authority will not accept and agree to operate and maintain the wastewater treatment facility, this application will be considered incomplete.
- 5.2 Complete if the continuing authority is a Missouri Public Service Commission, or PSC, regulated entity. See 10 CSR 20-6.010(2)(B)3 for more information. This information is not necessary for existing wastewater treatment facilities currently permitted with a PSC entity as owner and continuing authority.
- 5.3 Complete if the continuing authority is a property owners association. See 10 CSR 20-6.010(2)(B)5 for more information. This information is not necessary for existing wastewater treatment facilities currently permitted with the property owners association as owner and continuing authority.
- 6.0 Complete Engineer contact information.
- 7.0 Check the appropriate box and include check or confirmation number. Applicants can pay fees online by credit card or eCheck through a system called JetPay.
 - Per Section 37.001, RSMo, a transaction fee will be included. The transaction fee is paid to the third party vendor JetPay, not the Department of Natural Resources.
 - Be sure to select the correct fee type and corresponding URL to ensure your payment is applied appropriately. If you are unsure what type of fee to pay, please contact the Water Protection Program's Budget, Fees, and Grants Management Unit by phone at (573) 522-1485 for assistance.
 - Upon successful completion of your payment, JetPay provides a payment confirmation. Submit this form with a copy of the payment confirmation if requesting a new permit or a permit modification. For permit renewals of active permits, the Department will invoice fees annually in a separate request.
 - If you are unable to make your payment online, but want to pay with credit card, you may email your name, phone number, and invoice number, if applicable, wppfees.gov. The Budget, Fees, and Grants Management Unit will contact you to assist with the credit card payment. Please do not include your credit card information in the email.
 - Applicants can find fee rates in 10 CSR 20-6.011 and Wastewater Treatment Facility Permit Fees --PUB2564 (https://dnr.mo.gov/pubs/pub2564.htm).

WP 04 Construction Permits: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/592/

8.0 The owner of the construction project must sign the application.

Part B - Land Application

Complete Part B only if the proposed construction project includes land application of wastewater from a treatment facility.

- 8.0 Provide the applicable Facility Information land application information. Check the appropriate boxes.
- 9.0 Provide the applicable Storage Basins information. Check the appropriate boxes.
 - Freeboard The depth from the top of the berm to the emergency spillway. Minimum depth is one foot.
 - Safety Volume The depth to contain the 25-year, 24-hour storm event. Minimum depth is one foot.
 - Maximum Operating Water Level The water level at the bottom of the safety volume. Minimum depth is two feet below the top of the berm.
 - Minimum Operating Water Level The water level above the bottom of the lagoon basin for seal protection.
 Minimum depth is two feet and may be greater when additional treatment volume is included.
 - Total Depth is from the top of the berm to the bottom of the lagoon basin including freeboard.
- 10.0 Provide the applicable Land Application System information. Check the appropriate boxes.
- 10.7 Check the appropriate box. If the land application rate is based on a Nutrient Management Plan, or N and P, include the plan with this application for department review.

Mail the completed form and applicable fee to the department.

If there are any questions concerning this form, please contact the Department of Natural Resources, Water Protection Program at 800-361-4827 or 573-751-1300 or visit dnr.mo.gov/env/wpp.