STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

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

Construction Permit ID:	MOGC00758	
Title of Project:	MDNR, Meramec State Park WWTF	
Owner:	MDNR, Division of State Parks	
Address:	PO Box 176	
	Jefferson City, MO 65102	

The project will also include general site work appropriate to the scope and purpose of the project and will include all the necessary appurtenances to make a complete and usable collection system. The construction of this project will be in the vicinity of the county below and discharge to Receiving Permit ID below:

County: Franklin Receiving Permit ID: MO0098281

for the construction of (described construction project):

Meramec State Park Wastewater Improvements -Construction of approximately 14,788 lf of 4-inch HDPE SDR-11 force main with cleanouts and air release valves, 2 duplex lift stations. Pumps in the first lift station are capable of operating at 66 gpm at 236 feet of TDH, and pumps in the second lift station are capable of operating at 74 gpm at 232 TDH. System is to serve 200 PE and a design average flow of 19,919 gpd. The project is located along Meramec State Park Road and MO Highway 185. The continuing authority will be the City of Sullivan.

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.

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

January 13, 2025 Issue Date

John Hoke, Director Water Protection Program

January 12, 2027 Expiration Date

APPLICABILITY

- 1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Non-earthen flow equalization storage basins at lift stations and inline storage, which flows back into the lift station or collection system, are also included.
- 2. The Missouri Department of Natural Resources may require a site-specific sewer extension construction permit due to compliance and enforcement actions in accordance with 10 CSR 20-6.010(13)(C).
- 3. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects in accordance with 10 CSR 20-6.010(1)(B), 10 CSR 20-6.010(5)(B), and RSMo 644.051 unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. Submit the Sewer Extension Construction Permit application at least sixty (60) days in advance of the start of construction in accordance with 10 CSR 20-6.010(5)(F).
- 3. Submit an electronic copy of the construction permit application and documents to <u>DNR.WPPEngineerSection@dnr.mo.gov</u> in accordance with 10 CSR 20-6.010(5)(G)3.
- 4. The plans and specifications, each signed, sealed, and dated by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 5. The Design Certification form, Engineering Report, or Summary of Design, signed, sealed, and dated by a professional engineer registered in the State of Missouri, certifying the design of the system is in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 6. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the wastewater for treatment and indicating the permitted treatment facility has the available capacity.
- 7. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting responsibility for the operation and maintenance of these facilities.

PERMIT CONDITIONS:

- 1. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.
- 2. The construction must be in accordance with the final plans and specifications received by the Department. Revisions that affect capacity, flow, or system layout must be approved by the Department prior to construction.

PERMIT CONDITIONS: (continued)

- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps 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 regional office per 10 CSR 20-7.015(9)(E) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem.

See <u>https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</u> for more information.

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 6. Position manholes so that the top access is at or above grade level.
- 7. In addition to the requirements for a construction permit, see 10 CSR 20-6.200 for land disturbance requirements 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. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-</u> <u>certification-engineering-fees/stormwater/construction-land-disturbance</u> for more information.

8. Entities applying for funding under 10 CSR 20-4, "Grants and Loans" will need to comply with those requirements in addition to the requirements of 10 CSR 20-8.

PERMIT CONDITIONS: (continued)

9. The Department may require a United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) or a permit waiver for the activities described in this permit. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S., then a 404/401 is required. Fulfillment of these requirements is necessary before the permit is considered valid. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Operating Permits Section at 573-522-4502 for more information.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.

- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan with a Facility Closure Request Form, <u>Form MO 780-2512</u>, to the Department's appropriate <u>regional office</u> for review and approval. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III of the Missouri State Operating Permit. Closure shall not commence until the Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.

Recd 6/27/24		mile union		FOR DEPA	RTMENT USE ONLY
MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT –				APP NO. CP NO.	
				FEE RECEIVED	CHECK NO.
			DATE RECEIVED	analytical laboratory. 7	
	the second second	amplating thi	e form		
DTE Please Read the accompanying in O APPLICATION INFORMATION (Note – If	f any of the questions	s in this section	are answ	ered NO, this appl	cation may be
onsidered incomplete and returned.)	any of the queeters				
1 Is this a Federal/State funded project?	YES N/A	Funding Agen	cy: State	of Missouri P	roject #: X2306-03
2 Has the Department of Natural Resource	es approved the prop oval:	osed project's	engineerin	g report*?	□ N/A
3 Is a copy of the appropriate plans* and s	pecifications* include	ed with this app	lication?	YES 🗌 NO	
If the project is using standard specificati			0.16/0.900	vinorilus gritorite	. This appropriate control letter to control
4 Is a summary of design* included with th		YES NO			
5 Is the appropriate fee or JetPay confirma		is application?	☐ YES	NO NO	
See Section 7.0				Brad.	
Must be affixed with a Missouri registered p	rofessional engineer	's seal, signatu	ire and da	te.	
1 NAME OF PROJECT	OM		BION		DE. 6IN SI
eramec State Park Wastewater Improveme		YTLK	STATE	ZIP CODE	COUNTY
DDRESS	city Sullivan	100000101	MO	63080	Fanklin
5 Meramec Park Drive .2 Legal Description: ¹ /4, S ¹ / ₂		c. 13 ,	Γ 40	, R 2W	8651010-0
.2 Legal Description. 74, 5		TODACIE IN .			The difference from the
⁴ PROJECT DESCRIPTION roject involves the regionalization of the Me ubmersible grinder pump stations shall be in lissouri Highway 185 Meramec River Bridge onveyed to Lift Station No. 2 via a 11,400 F outhern extent of the intersection of Missou vastewater from to the City of Sullivan collec hall be installed at the LS2 site for the dosir	nstalled. Lift Station e. All wastewater ge T, 4 IN SDR-11 IPS ri Highway 185 and t ction system via 3,38	nerated within HDPE force m the Missouri Hi 8 FT, 4 IN SD	the State F ain. Lift St ghway 185 R-11 IPS F	Park shall be collect ation No. 2 (LS2)s	ted at the LS1 and hall be located at the hall convey all A chemical feed syst
					the state of the s
2.5 DESIGN INFORMATION	11. 41.2	100 05			Check Mumber
 Population or number of lots to be serve 				Design Peak H	
 Population or number of lots to be serve 	extension: Design A	Average Flow:	gpd	Design Peak H	ourly Flow: g
A. Population or number of lots to be serveB. Estimated flow to be contributed by this			gpd	Design Peak H	ourly Flow: g
A. Population or number of lots to be serveB. Estimated flow to be contributed by thisC. Industrial Wastes: Type: N/A	extension: Design A Flow:	Average Flow: gpd	gpd	Design Peak H	
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 A. Population or number of lots to be serve B. Estimated flow to be contributed by this C. Industrial Wastes: Type: N/A D. Receiving Sewer: Size: 8 inche E. Does this project (check all that apply): Connect to an existing treatment plant F. Estimated number of onsite systems beild: G: Estimated costs associated with piping: 3.0 PROJECT OWNER 	extension: Design A Flow: s Capacity: 60 Resolve enforced ing removed: N/A \$ 1588963 Es	Average Flow: gpd 10 gpm ment issue	Eliminate	or consolidate an with lift station(s):	existing treatment pla \$ 1248470
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 A. Population or number of lots to be serve B. Estimated flow to be contributed by this C. Industrial Wastes: Type: N/A D. Receiving Sewer: Size: 8 inche E. Does this project (check all that apply): Connect to an existing treatment plant F. Estimated number of onsite systems beild: G: Estimated costs associated with piping: 3.0 PROJECT OWNER 	extension: Design A Flow: s Capacity: 60 Resolve enforced ing removed: N/A \$ 1588963 Es	Average Flow: gpd 10 gpm ment issue	Eliminate	or consolidate an with lift station(s):	existing treatment pla \$ 1248470

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4.0 CONTINUING AUTHORITY: A continuin for ensuring compliance with the permit requing Continuing authority should be a relatively per- when needed, of the permitted facility or active hired by the permittee to sample or operate a analytical laboratory. To access the regulator Water Commission Chapter 6. A continuing a (SoS's) webpage: <u>Missouri Secretary of State</u> required to register with the SoS.	irements and pro ermanent entity r vity. A continuing and maintain the ry requirement re authority's name	ovide continuou esponsible for authority is no system for a d garding contir must be listed	us stable overs the ongoing o ot, however, an efined time per using authority exactly as it a	sight of the permitted facility or activity. The peration, maintenance and modernization, n entity or individual that is contractually priod, such as a certified operator or , 10 CSR 20-6.010(2), please visit <u>Clean</u> ppears on the Missouri Secretary of State's
NAME		HONE NUMBER WIT	TH AREA CODE	EMAIL ADDRESS
Missouri Department of Natural Resources		751-5360	337 24	nathan.graessle@dnr.mo.gov
ADDRESS P.O. Box 176	CITY		STATE	ZIP CODE
CHARTER NUMBER (SECRETARY OF STATE)	Jefferson City		MO	65102
4.1 Has appropriate continuing authority acce A letter from the continuing authority acceptin different than the original owner of the constr Treatment Facility Acceptance" Form 780-25 5.0 ENGINEER ENGINEER NAME / COMPANY NAME	ng responsibility ruction), or a prop 84.	for continued r	naintenance o "Continuing A I/A	f the sewer (if the continuing authority is uthority and Receiving Wastewater
Archer-Elgin Engineering & Surveying	the second	364-6362	HAREA CODE	kcampbell@cmarcher.com
ADDRESS 310 E. 6th St	CITY		STATE	ZIP CODE
6.0 RECEIVING WASTEWATER TREATME	Rolla		MO	65401
NAME		HONE NUMBER WIT	H AREA CODE	EMAIL ADDRESS
Sullivan WWTP MISSOURI STATE OPERATING PERMIT #	573-4	68-8975	Sullean	rschaffer@sullivan.mo.us
MO-0104736	Fran			REMAINING CAPACITY (GPD) 300,000
accept the expanded flow or has a properly of MO 780-2584 form been provided? ☐ YE 6.2 A letter from the receiving wastewater tre ☐ YES ☑ NO ☐ N/A 6.3 If the receiving treatment plant or continu	S V NO	N/A different than egulated by the	the continuing	authority, is included with this application.
Certificate of Convenience and Necessity has OPTIONAL QUESTIONS REGARDING MIL			ate:	L No ☑ N/A
Have you or an immediate family member ev				
U.S. Armed Forces? If yes, would you like information about milita	.torinco n	DOO INS CONTRACT] Yes	and Do installed of the LS2 and ON D doe
in Missouri?] Yes	□ No
7.0 Application Fee				
Check Number			ay Confirmatio	
8.0 PROJECT OWNER: I certify under penal supervision in accordance with a system desi submitted. Based on my inquiry of the person gathering the information, the information sub aware there are significant penalties for subm violations.	igned to assure on or persons who omitted is, to the	qualified perso manage the s best of my kno	nnel properly g ystem, or thos owledge and b	gather and evaluate the information se persons directly responsible for elief, true, accurate and complete 1 am
PRINTED NAME	Luce		-tonuomer poi	F. Estimated number of onsite systems ha
Nathan Graessle				DATE (/)2/24
TITLE OR CORPORATE POSITION	TELEP	HONE NUMBER WIT	H AREA CODE	EMAIL ADDRESS
	573-7	51-5360		nathan.graessle@dnr.mo.gov
Mail completed copy to:		73-761-4860		Meanur, Department of Natural Runorses
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PO BOX 176 JEFFERSON CITY, MO 65102-0176		City ·	Submit completed electronic copy to: Missouri Department of Natural Resources at DNR.WPPEngineerSection@dnr.mo.gov	

MO 780-1632 (10-22)

9.0 SEWER EXTENSION CHECKLIST

SEWI	ER EXTENSION D able to the design	ESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is of the proposed sewer extension.	clearly r	not
157	REGULATION	(A) Is the up well completely selected. Plant 2-0 will well and is a suitable and sets mu	YES	N/A
1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	П	
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?		
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?		
4.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?		
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?		
6.	8.120(3) (A)1	Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?		
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?		
8.	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?		
9.	8.120(4)(A)	Are manholes located at the end of each line, at all changes in grade, size or alignment and at all intersections?		
10.	8.120(4)(C)	Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8"?		
11.	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, they are a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?		
12.	8.120(4)(E)	Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?		
13.	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?		
14.	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manhole?		
15.	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?		
10.0 F	PRESSURE SEWE	RS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST	New York	ing means
	REGULATION		YES	N/A
16.	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?		
17.	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?		
18.	8.125(5)(B)	Are appurtenances compatible with the piping system?		
19.	8.125(5)(B)2.	Are isolation valves located: upstream of major pipe intersections; both sides of stream, bridge and RR crossings; at terminal end of system?		
20.	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25"?		
21.	8.125(5)(D)1.A	Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pumpt.		
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?		
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?		
24.	8.125(5)(D)4.	Do grinder pump stations have shutoff valves, check valves and anti-siphon valves (where siphoning could occur) that are accessible from the ground surface?		
25.	8.125(5)(D)7., 8.130(3)(B)2.	Are units serviceable and replaceable under wet conditions without electrical hazard and is electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?		
26.	8.125(5)(D)8., 8.125(2)(F)6.	Are provisions in place to avoid interruption of service due to mechanical or power failure by providing standby power, storage capacity, or interconnection with another disposal system?		
07	0.100/01/01			
27. 28.	8.125(6)(D) 8.125(6)(F)	In a STEP system is at least one septic tank (1,000 gallons or more) provided for each EDU with 20% of tank volume dedicatied to freeboard and ventillation? Are duplex pumps provided for the design flow of 1,500 gallons or greater?		

11.0	PUMP STATION O	HECKLIST				
	REGULATION			YES	N/A	
29.	8.125(7)(C)	Is the minimum diameter sewer main pipe and service line of STEG sewer at least 4"?		G sewer at least 4"?		
30.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?				
31.	8.130(3)(A)	Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?				
32.	8.130(3)(B)	If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors provided?			~	
33	8.130(3)(D)	Are valves located outside wet well unle	ess integral to a pump or it	s housing?		
34.	8.130(3)(F) 8.140(8)(J)	Do wet and dry wells have separate ver	ntilation systems?	xa Wideloodoj		
35.	8.130(3)(G)	Does all potable water brought to pump	stations comply with 8.14	0(7)(D)?		~
36.	8.130(6)	Is an alarm system provided with uninte	errupted power?	Sant enio sin po		
37.	8.130(7)(A)	Is there 2 hours retention of the peak hore retention of the peak hourly flow for a de				
38.	8.130(7)(B)	Are there independent utility substations and operating the pump station at its ra	s provided for emergency	power capable of starting		
39.	8.130(8)(A)	Is the force main velocity of ≥ 2 ft/s main		et unosteb et 11 conte		
40.	8.130	Are there complete operation instruction		s provided that include		
	iniation in a triation	emergency procedures, maintenance so necessary?				
12.0 \$	SUCTION LIFT PU	IMP AND SUBMERSIBLE PUMP STATIO	ON CHECKLIST			
-	REGULATION	i lateral metead of a mentrole, they are b			YES	N/A
41.	8.130(4)	Are the suction lift pumps of the self prin	ming or vacuum priming ty	pe?		~
42.	8.130(4)(A)		e combined total of dynamic suction lift at the "pump off" elevation and required net ive suction head at design operating conditions less than or equal to 22 feet?			~
43.	8.130(4)(B)	Are there dual vacuum pumps capable	of removing air from the su	uction lift pump?		~
44.	8.130(5)(A)	Are submersible pumps readily remova	ble and replaceable without			
42.0.0		disconnecting any pipe in the wet well? ON CHECKLIST CERTIFICATION STA				
engin Item N Item N Item N Item N Item N Item N	eer. o. 30 - No dry well o. 34 - No dry well o. 35 - No potable o. 38 - No redunda o. 41 - Pumps sha o. 42 - Pump shall	ered "N/A" provide an explanation. Also p shall be provided. Pumps shall be subm is present within the scope of the current water supply shall be installed at the lift s ant electrical circuits are available at the s Il be submersible rated, installed below the be submersible rated, installed below the ll be submersible rated. Each pump shall	ersible rated. design. tation sites. ite. e normal water surface eleve	evation in the wetwell.		
	a	Honey a single requiredent gwar on the		TE OF MISS	D	
Misso	uri Professional E	ngineer's seal, signature and date:	Nythe Initiations of states 51.1 Initiations of states Initiation of the states of the states Idiates of the states of the state	* NUMBER PE-2006002797 06-26-24	ER A CIN	2
Name	[:] Kenneth A. Cam	pbell	na elución international estador manter a contrata for hectaron non 1 hactarian)	NAL ENGI	Ţ	
Addre	ess: 310 E. 6th St	on of service due to n access call of na we saily, or interconnection with ancient ling	indruusiu piccie vieroni in Indruusiu piccie vieroni in	Definition of the provision of the provi	201-4	
City: F	Rolla	State: MO	Z	IP Code: 65401	21. 11.7.16	
Telep	hone Number with	Area Code: 573-364-6362	Email:kcampbell@cmarcher.com			

MO	780-1632	(10-22)
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