STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Depar	rtment of Natural F	Resources hereb	y issues a	permit to:
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Construction Permit ID: MOGSE0345

Title of Project: Outer Road S of Hwy 60

Owner: Sikeston Board of Municipal Utilities

Address: PO Box 370

Sikeston, MO 63801

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: Mississippi Receiving Permit ID: MO0088536

for the construction of (described construction project):

Outer Road South of Highway 60 - Construction of 3,203 lf of 10-inch PVC gravity sewer with 10 manholes, 122 lf of 8-inch force main and 1 duplex lift station with each pump capable of operating at 440 gpm to serve 1,677 PE and a design average flow of 52,800 gpd. It will connect to an existing 14-inch force main that flows to the South Wastewater Treatment Plant.

Project is in the vicinity of Southwest Overpass Outer Road in Sikeston, New Madrid County and discharges to an existing system to be treated at Sikeston South WWTF, MO-00088536. Jeff Winders, BMU Operations Manager, signed the application dated March 3, 2022.

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.

March 23, 2022	Chie Wieberg
Issue Date	Chris Wieberg, Director
	Water Protection Program

March 22, 2024 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. A site specific sewer extension construction permit may be required by the Department due to compliance and enforcement actions.
- 3. Projects located within an Approved Sewer Program as noted in the operating permit of the receiving wastewater treatment facility are not required to obtain a construction permit from the Department of Natural Resources (Department).
- 4. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The General Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. The plans and specifications each signed and sealed by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 3. The Design Certification form or Engineering Report or Summary of Design signed and sealed by a professional engineer registered in the State of Missouri certifying the design of the system was prepared in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 4. 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.
- 5. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the responsibility for 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 approved by the Department.
- 3. 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 regional office per 10 CSR 20-7.015(9)(E)2., or through the Online Bypass/SSO Reporting system found at https://dnr.mo.gov/eservices.htm under Water Protection.

PERMIT CONDITIONS: (continued)

- 4. Protection of drinking water supplies must meet the requirements of 10 CSR 23-3.010.
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto, which would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Sewers shall be laid at least fifty feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 5. Manholes shall be located with the top access at or above grade level.
- 6. 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. Land disturbance permits will only be obtained by means of the Department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm.

See <u>www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm</u> for more information.

7. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the Department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Water Protection Program at 573-751-1300 for more information.

See www.dnr.mo.gov/env/wpp/401/ for more information.

- 8. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then a full closure plan shall be submitted with a Facility Closure Request Form, Form MO 780-2512 to the Department's appropriate regional office 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 submitted closure plan is approved by the Department.
- 9. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a statement of work complete following the completion of construction



MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

FOR DEPAR	TMENT USE ONLY
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	200

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NOTE ► PLEASE READ THE ACCO	MPANYING IN	ISTRUCTIONS BEFO	RE COMPLE	TING THIS FORM	
1.0 APPLICATION INFORMATION (I considered incomplete and returned.)		f the questions in this t			oplication may be
1.1 Is this a Federal/State funded proje	ect? YES	☑ N/A Funding	Agency:		Project #:
1.2 Has the Department of Natural Res ☐ YES Date of Approval:	sources appro	ved the proposed proje ☐ N/A	ect's engineer	ing report*?	
1.3 Is a copy of the appropriate plans*	and specificat	ions* included with this	s application?	☑ YES ☐ NO)
1.4 Is a summary of design* included v	with this applica	ation? 🛮 YES 🗆	NO		
1.5 Is the appropriate fee or JetPay co See Section 7.0			ion?	□ №	
* Must be affixed with a Missouri registe	ered profession	nal engineer's seal. sig	nature and da	ate.	
2.0 PROJECT INFORMATION				(v)	POUR LASSING IN
2.1 NAME OF PROJECT iff station and gravity mains along the p	aranagad Outa	r Dood couth of Light	rov 60		
ADDRESS	спу	Road South of Flight	STATE	ZIP CODE	COUNTY
P. O. Box 270	Sikesto	า	MO	63801	New Madrid
2.2 Legal Description: 1/4,	1/4,	¼, Sec. 31 ,	T 25N , R		7.000
		31 ,	2514	145	
∴3 Project Components (check all that☑ Gravity sewers☑ Pumping s		force mains	rnative sewer	system Othe	r (Describe below.)
4 PROJECT DESCRIPTION					
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.5 DESIGN INFORMATION A. Population or number of lots to be set. B. Estimated flow to be contributed by the set of lots to be set.	of future resident	ntial development. xtension: potential 559) lots		
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5.0 ENGINEER				of the file of	Astronia della verta i statolici se usoli:
ENGINEER NAME / COMPANY NAME			TELEPHONE NUMBER WIT	H AREA CODE	E-MAIL ADDRESS
John Chittenden/Waters Enginee	ering		573-471-5680		jchittenden@waterseng.com
ADDRESS		CITY		STATE	ZIP CODE
P. O. Box 567		Sikeston		MO	63801
6.0 RECEIVING WASTEWATE	R TREATM	ENT FACI	LITY	1275	Table Service Service
NAME			TELEPHONE NUMBER WIT	H AREA CODE	E-MAIL ADDRESS
Sikeston South Wastewater Trea	tment Plant		573-475-3329		jwinders@sbmu.net
MISSOURI STATE OPERATING PERMIT #			REMAINING CAPACITY (GP	PD)	1
MO-0088536			1,500,000 gpd		
6.1 Has the receiving treatment	facility agree	ed to acce	pt the additional wast	ewater flow?	☑YES ☐NO
	astewater tr				authority, is included with this application.
7.0 Application Fee			EWELL TURNED		reflect the court of the province
☑Check Number			□J	etPav Confirm	nation Number
submitted. Based on my inquiry of gathering the information, the inf	of the persor ormation sub	or person mitted is.	ns who manage the sy to the best of my kno	stem, or those	orly gather and evaluate the information e persons directly responsible for elief, true, accurate, and complete. I am sibility of fine and Imprisonment for
291 Wm	Le				
Jeff Winders					10-28-2019 3 /1/2Z
TITLE OR COPORATE POSITION			TELEPHONE NUMBER WITH	AREA CODE	E-MAIL ADDRESS
BMU Operations Manager			573-475-3329		jwinders@sbmu.net
Mail completed copy to:	WATER PR	ROTECTIC 76	MENT OF NATURAL ON PROGRAM MO 65102-0176	RESOURCES	3
O 780-1632 (02 - 19)					Page 2 of 2

SEWER EXTENSION DESIGN CERTIFICATION

Answer all questions yes, no, or N/A. Answer N/A only if the question is clearly not applicable to the design of the proposed sewer extension **OR** if a deviation was previously allowed by the Department in the approval of Standard specifications or Standard Detail Sheets.

9.0 5	SEWER EXTENS	ION CHECKLIST			
	REGULATION		YES	NO	N/A
1.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?	✓		
2.	8.110(3)(A)(B)	Is the design flow based on actual flow data for an existing system? Is the design flow based on the design peak hourly flow for a new collection system?	V		
3.	8.120(2)	Does the sewer receive only sewage and not combined sewage?			
4.	8.120(3)(C)	Are the joints sealed to prevent infiltration or exfiltration > 100 gal/inch of pipe dia/mile/day for receiving WWTF with a design flow > 22,500 gpd, and >200 gal/inch of pipe dia/mile/day for any section between manholes?	V		
5.	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, at all intersections?	✓		
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?		V	
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated?	V		
8.	8.120(3)(A)	Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?	V		
9.	8.120(3)(B)	Is pipe being tested to ensure it does not exceed a deflection of 5% of the inside diameter?	V		
10.	8.120(4)(C)	Are manholes at least 48 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 inchesor larger and equal to the diameter for pipes < 8"?			V
12.	8.120(4)(E)	Are the manholes watertight, constructed, 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?	V		
14.	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?	V		
15.	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?	V		
10.0	PRESSURE SE	WERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST			
	REGULATION		YES	NO	N/A
16	8.125(5)(A)	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day when the minimum diameter sewer main pipe is at least 1.5"?			V
17	8.125(5)B	Are appirtenances compatible with the piping system?			1
18	8.125(5)(C)	Is the minimum diameter service line pipe at least 1.25"?			V
19	8.125(5)(D)1A	Are no multiple equivalent dwelling units (EDUs) or commercial facilities served by simplex grinder pump stations?			V
20	8.125(5)(D)1B	Are multiple unit pump stations owned, operated, maintained by an approved continuing authority.			/
21	8.125(5)(D)3	Is there at least 70 gallons of storage in the grinder pump unit?			1
22.	8.125(5)(D)4	is shutoff valve accessible from the ground? Is there a check valve? Is there an anti-siphon valve where siphoning could occur ?			1
23	8.125(5)(D)7 8.130(3)(B)2	Are units serviceable and replaceable under wet conditions without electrical hazard to repair personnel and electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)			1

24	8.125(6)(D) 8.180(2)	Does at least 1 septic tank (1,000 gallons or more) provide to each EDU?			V
25	8.125(6)(F)	Are duplex pumps provided for the design flow of 1,500 gallons or more STEP sewer?			V
26	8.125(7)(A) 8.125(7)(C)	Is the minimum diameter sewer main pipe and service line of STEG sewer at least 4"?			V
27	8.125(5)(D)8 8.125(8)	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?			V
11.0	PUMP STATIO	N CHECKLIST			
	REGULATION		YES	NO	N/A
28.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?			V
29.	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?			V
30.	8.130(3)(B)	If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors?			V
31	8.130(3)(D)	Are valves outside wet well unless integral to a pump or its housing?			V
32.	8.130(3)(F) 8.140 (8)(J)	Is interconnection between wet and dry well ventilation system?			1
33	8.130(3)(G)	Does all potable water at station comply with 8.140 (7) D?			V
34	8.130(6)	Is an alarm system provided an uninterrupted power?			V
35.	8.130(7) (A)	is there 2 hrs retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd?			V
36	8.130(7)(B)	Is there independent utility substations?			V
37	8.130(8)(A)	Is the force main velocity of ≥ 2 ft/s maintained?			V
38.	8.130	Instructions and Equipment. Sewage pumping stations and their operators should have a complete set of operational instructions, including emergency procedures, maintenance schedules, special tools and spare parts as may be necessary.			V
12.0	SUCTION LIFT	PUMP AND SUBMERSIBLE PUMP STATION CHECKLIST		1	
	REGULATION		YES	NO	N/A
39.	8.130(4)	Are the suction lift pumps of the self priming or vacuum priming type?			V
40.	8.130(4)(A)	The combined total of dynamic suction lift at the "pump off" elevation and required net positive suction head at design operating conditions shall not exceed twenty-two feet (22').			V
11	8.130(4)(B)	Is there dual vacuum pumps capable of removing air from the suction lift pump.			V
42	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personel entering, or disconnecting any pipe in the wet well?			V
2.0	CERTIFICATION	STATEMENT		-	

12.0 CERTIFICATION STATEMENT

I hereby certify that the design plans and specifications for this project, to the best of my knowledge, conform to the requirements listed above. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

I hereby certify that this plan, specification, and/or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Missouri.

Missouri Professional Engineer's Seal:

Name: JOHN CHITTENDEN
Street Address: P.O. BOX 567
City: SIKESTIN

State: MO Zip Code: 63801

Phone Number: 573-471-5680

Email:

|chittenden & waterseng.com



MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT -SEWER EXTENSION

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APP NO.	Ci	P NO.	
FEE RECEIVED		CHECK-NO.	_
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DATE RECEIVED	20	747	-
DATE RECEIVED	2-2	-22	X

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considered incomplete		− ii ariy o iri	ie questions in ti	ns secuon are an	swered NO, (nis a	ipplication may be
1.1 Is this a Federal/S	tate funded project?	☐ YES	☑ N/A Fundi	ing Agency:		Project #:
1.2 Has the Departme Type Date of Ap	nt of Natural Resourd proval:	es approved NO	the proposed p	roject's engineeri	ing report*?	
1.3 Is a copy of the ap	propriate plans* and	specification	s* included with	this application?	☑ YES □ N	0
1.4 Is a summary of de	esign* included with t	his applicatio	on? Z YES	□ NO		
1.5 Is the appropriate See Section 7,0	fee or JetPay confirm	ation include	ed with this appli	ication? 🗹 YEŞ	□NO	
* Must be affixed with a	Missouri registered	professional	engineer's seal,	, signature and da	ate.	
2.0 PROJECT INFOR	MATION		。 第二章的一条句:	其字形式如此		
2.1 NAME OF PROJECT Lift station and gravity r	nains along the prope	seed Outer R	Poad south of His	ahway 60		
ADDRESS	name along the prope	T CITY	toda south of File	STATE	ZIP CODE	COUNTY
		Sikeston		MO	63801	New Madrid
J. O. Box 270		Sikeston				11011 Midding
P. O. Box 270 2.2 Legal Description: 2.3 Project Componen [7] Gravity sewers		1⁄4,	¼, Sec. 31	, ^T 25N , R		
2.2 Legal Description: 2.3 Project Componen Gravity sewers 2.4 PROJECT DESCRIPTION Project includes a new to an existing 14-inch formanholes.	ts (check all that app Pumping statio Pumping statio Pumping statio	ly): ns Fore	ce mains	, T 25N , R Alternative sewer capacity of 440 gr	system	er (Describe below.) inch forcemain to connect ch gravity main with 10
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BOARD OF MUNICIPAL UTILITIES ACCOUNTS PAYABLE CLEARING ACCOUNT

AMOUNT

\$300.00

THREE HUNDRED DOLLARS AND 00 CENTS********

STATE OF MISSOURI MO DEPT OF NATURAL RESOUCES TO THE WATER PROTECTION PROGRAM ORDER PO BOX 176 OF JEFFERSON CITY, MO 65102